

GenCore version 5.1.6  
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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: May 11, 2005, 08:41:02 ; Search time 3 Seconds  
(without alignments)  
3.170 Million cell updates/sec

Title: US-09-940-235-4  
Perfect score: 627  
Sequence: 1 PIAKCFDHAAGTSYVGET.....BRHTSVQTTSSGSPFTDVR 110

Scoring table:  
BLOSUM62  
Xgapop 10.0 , Xgapext 0.5  
Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 23 seqs, 43234 residues

Total number of hits satisfying chosen parameters: 46

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Command line parameters:  
-MODEL=frame+ p2n.model -DEV=soft -Q=pending Patents AA Main:US-09-940-235-4  
-DB=rnp2.pep -SUFFIX=pto -OUT=align4\_150\_259\_rnpm -MINMATCH=0.1 -LOOPCL=0  
-LOOPEXT=0 -UNITS=bits -START=150 -END=259 -MATRIX=blosum62 -TRANS=human40.cdi  
-LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=45  
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000  
-NCPU=6 -NO XLPXY -NEG SCORES=0 -LONGLOG -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5  
-FGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : rnp2.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Score	Match Length	ID	Description
1	627	100.0	1541	1 US-09-471-349-9 Sequence 9, Appli
2	627	100.0	1541	1 US-09-940-235-9 Sequence 9, Appli
3	627	100.0	1541	1 US-10-631-558-9 Sequence 9, Appli
4	627	100.0	2096	1 US-09-471-349-12 Sequence 12, Appl
5	627	100.0	2096	1 US-09-940-235-12 Sequence 12, Appl
6	627	100.0	2096	1 US-10-631-558-12 Sequence 12, Appl
7	497.5	79.3	1782	1 US-09-471-349-11 Sequence 11, Appl
8	497.5	79.3	1782	1 US-09-940-235-11 Sequence 11, Appl
9	497.5	79.3	1782	1 US-10-631-558-11 Sequence 11, Appl
10	148.5	23.7	1661	1 US-09-471-349-10 Sequence 10, Appl
11	148.5	23.7	1661	1 US-09-940-235-10 Sequence 10, Appl
12	148.5	23.7	1661	1 US-10-631-558-10 Sequence 10, Appl
C 13	45	7.2	1541	1 US-09-471-349-9 Sequence 9, Appli
C 14	45	7.2	1541	1 US-09-940-235-9 Sequence 9, Appli
C 15	45	7.2	1541	1 US-10-631-558-9 Sequence 9, Appli
C 16	45	7.2	1782	1 US-09-471-349-11 Sequence 11, Appl
C 17	45	7.2	1782	1 US-09-940-235-11 Sequence 11, Appl
C 18	45	7.2	1782	1 US-10-631-558-11 Sequence 11, Appl
C 19	45	7.2	2096	1 US-09-471-349-12 Sequence 12, Appl
C 20	45	7.2	2096	1 US-09-940-235-12 Sequence 12, Appl
C 21	45	7.2	2096	1 US-10-631-558-12 Sequence 12, Appl

22	38.5	6.1	8893	1	US-09-569-920-3	Sequence 3, Appli
C 23	37.5	6.0	8893	1	US-09-569-920-3	Sequence 3, Appli
C 24	33.5	5.3	1245	1	US-09-471-349-1	Sequence 1, Appli
C 25	33.5	5.3	1245	1	US-09-940-235-1	Sequence 1, Appli
C 26	33.5	5.3	1245	1	US-10-631-558-1	Sequence 1, Appli
C 27	33.5	5.3	1254	1	US-09-569-920-2	Sequence 2, Appli
C 28	33.5	5.3	1327	1	US-09-471-349-6	Sequence 6, Appli
C 29	33.5	5.3	1327	1	US-09-940-235-6	Sequence 6, Appli
C 30	33.5	5.3	1327	1	US-10-631-558-6	Sequence 6, Appli
C 31	33.5	5.3	1377	1	US-09-471-349-5	Sequence 5, Appli
C 32	33.5	5.3	1377	1	US-09-940-235-5	Sequence 5, Appli
C 33	33.5	5.3	1377	1	US-10-631-558-5	Sequence 5, Appli
C 34	33.5	5.3	1661	1	US-09-471-349-10	Sequence 10, Appl
C 35	33.5	5.3	1661	1	US-09-940-235-10	Sequence 10, Appl
C 36	33.5	5.3	1661	1	US-10-631-558-10	Sequence 10, Appl
37	31.5	5.0	1245	1	US-09-471-349-1	Sequence 1, Appli
38	31.5	5.0	1245	1	US-09-940-235-1	Sequence 1, Appli
39	31.5	5.0	1245	1	US-10-631-558-1	Sequence 1, Appli
40	31.5	5.0	1254	1	US-09-569-920-2	Sequence 2, Appli
41	31.5	5.0	1327	1	US-09-471-349-6	Sequence 6, Appli
42	31.5	5.0	1327	1	US-09-940-235-6	Sequence 6, Appli
43	31.5	5.0	1327	1	US-10-631-558-6	Sequence 6, Appli
44	31.5	5.0	1377	1	US-09-471-349-5	Sequence 5, Appli
45	31.5	5.0	1377	1	US-09-940-235-5	Sequence 5, Appli

ALIGNMENTS

RESULT 1  
US-09-471-349-9  
; Sequence 9, Application US/09471349  
; GENERAL INFORMATION:  
; APPLICANT: Sahni, Girish  
; APPLICANT: Kumar, Rajesh  
; APPLICANT: Roy, Chaiti  
; APPLICANT: Rajagopal, Kammar  
; APPLICANT: Nihalani, Deepak  
; APPLICANT: Sundaram, Vasudha  
; APPLICANT: Yadav, Mahavir  
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE PROTEINS POSSESSING ALTERED  
; TITLE OF INVENTION: PLASMINOGEN ACTIVATION CHARACTERISTICS AND A PROCESS FOR THE  
; FILE REFERENCE: 07064/009001  
; CURRENT APPLICATION NUMBER: US/09/471,349  
; CURRENT FILING DATE: 1999-12-23  
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98  
; PRIOR FILING DATE: 1998-12-24  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 9  
; LENGTH: 1541  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetically generated primer  
US-09-471-349-9

Alignment Scores:  
Pred. No.: 0.0492 Length: 1541  
Score: 627.00 Matches: 110  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
DB: 1 Gaps: 0

US-09-940-235-4 (1-259) x US-09-471-349-9 (1-1541)

QY	150	ProfileAlaGluLysCysPheAspHisAlaAaglyThrSerTyrValValGlyGluThr	169
DB	1209	CCCATAGCTGGAAGGTTTGTATCATGCTGCGGACATTCCTATGTGGTCGGGAACG	1258
QY	170	TrpGluLysProTyrGlnGlyTrpMetMetValAspCysThrCysLeuGlyGluGlySer	189

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Db 1269 TGGGAGAGCCCTACCAAGGCTGGATGATGTAGATTGTTACTTGGCTGGGAGAGGCAGC 1328
Qy 190 GlyArgIleThrCysThrSerArgAsnArgCysAsnArgGlnAspThrArgThrSerTyr 209
Db 1329 GGAGCGATCACTTGCACCTTCTAGAATAAGATGCAACGATCAGGACACAGGACATCCTAT 1388
Qy 210 ArgIleGlyAspThrTrpSerLysLysAspAsnArgGlyAsnLeuGlnCysIleCys 229
Db 1389 AGAATTGGAGACACCTGGAGCAGAAGGATAATCGAGGAAACCTGCTCCAGTGCATCTGC 1448
Qy 230 ThrGlyAsnGlyArgGlyGluTrpLysCysGluArgHisThrSerValGlnThrThrSer 249
Db 1449 ACAGGCACCGCCGAGGAGAGTGGAAAGTGTGAGAGGCACACCTCTGTGCGAGACCATCG 1508
Qy 250 SerGlySerGlyProPheThrAspValArg 259
Db 1509 AGCGGATCTGGCCCTTCACCGATGTTGCT 1538

RESULT 2
US-09-940-235-9
; Sequence 9, Application US/09940235
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammar
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; TITLE OF INVENTION: PROTEIN
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/09/940,235
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 1541
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hybrid cassette
US-09-940-235-9

Alignment Scores:
Pred. No.: 0.0492 Length: 1541
Score: 627.00 Matches: 110
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 1 Gaps: 0

US-09-940-235-4 (1-259) x US-09-940-235-9 (1-1541)
Qy 150 ProfileAlaGluLysCysPheAspHisAlaAlaGlyThrSerTyrValValGlyGluThr 169
Db 1209 CCCATAGCTGAGAGTGTGATCATGCTGCTGGGACTTCCTATGTGGTGGAGAAACG 1268
Qy 170 TrpGluLysProTyrGlnGlyTrpMetValAspCysThrCysLeuGlyGlySer 189
Db 1269 TGGGAGAGCCCTACCAAGGCTGGATGATGGTAGATTGTTACTTGGCTGGGAGAGGCAGC 1328
Qy 190 GlyArgIleThrCysThrSerArgAsnArgCysAsnArgGlnAspThrArgThrSerTyr 209
Db 1329 GGACGCATCACTTGCACCTTCTAGAATAAGATGCAACGATCAGGACACAGGACATCCTAT 1388
Qy 210 ArgIleGlyAspThrTrpSerLysLysAspAsnArgGlyAsnLeuGlnCysIleCys 229
Db 1389 AGAATTGGAGACACCTGGAGCAGAAGGATAATCGAGGAAACCTGCTCCAGTGCATCTGC 1448
Qy 230 ThrGlyAsnGlyArgGlyGluTrpLysCysGluArgHisThrSerValGlnThrThrSer 249
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Db 1389 AGAATTGGAGACACCTGGAGCAGAAGGATAATCGAGGAAACCTGCTCCAGTGCATCTGC 1448
Qy 230 ThrGlyAsnGlyArgGlyGluTrpLysCysGluArgHisThrSerValGlnThrThrSer 249
Db 1449 ACAGGCACCGCCGAGGAGAGTGGAAAGTGTGAGAGGCACACCTCTGTGCGAGACCATCG 1508
Qy 250 SerGlySerGlyProPheThrAspValArg 259
Db 1509 AGCGGATCTGGCCCTTCACCGATGTTGCT 1538

RESULT 3
US-10-631-558-9
; Sequence 9, Application US/10631558
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammar
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; TITLE OF INVENTION: PROTEIN
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/10/631,558
; CURRENT FILING DATE: 2003-07-31
; PRIOR APPLICATION NUMBER: US/09/940,235
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 1541
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hybrid cassette
US-10-631-558-9

Alignment Scores:
Pred. No.: 0.0492 Length: 1541
Score: 627.00 Matches: 110
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 1 Gaps: 0

US-09-940-235-4 (1-259) x US-10-631-558-9 (1-1541)
Qy 150 ProfileAlaGluLysCysPheAspHisAlaAlaGlyThrSerTyrValValGlyGluThr 169
Db 1209 CCCATAGCTGAGAGTGTGATCATGCTGCTGGGACTTCCTATGTGGTGGAGAAACG 1268
Qy 170 TrpGluLysProTyrGlnGlyTrpMetValAspCysThrCysLeuGlyGlySer 189
Db 1269 TGGGAGAGCCCTACCAAGGCTGGATGATGGTAGATTGTTACTTGGCTGGGAGAGGCAGC 1328
Qy 190 GlyArgIleThrCysThrSerArgAsnArgCysAsnArgGlnAspThrArgThrSerTyr 209
Db 1329 GGACGCATCACTTGCACCTTCTAGAATAAGATGCAACGATCAGGACACAGGACATCCTAT 1388
Qy 210 ArgIleGlyAspThrTrpSerLysLysAspAsnArgGlyAsnLeuGlnCysIleCys 229
Db 1389 AGAATTGGAGACACCTGGAGCAGAAGGATAATCGAGGAAACCTGCTCCAGTGCATCTGC 1448
Qy 230 ThrGlyAsnGlyArgGlyGluTrpLysCysGluArgHisThrSerValGlnThrThrSer 249
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US-09-940-235-12  
; Sequence 12, Application US/09940235  
; GENERAL INFORMATION:

```

; CURRENT FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 1782
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetically generated primer
US-09-471-349-11

Alignment Scores:
Pred. No.: 0.193 Length: 1782
Score: 497.50 Matches: 94
Percent Similarity: 85.45% Conservative: 0
Best Local Similarity: 85.45% Mismatches: 1
Query Match: 79.35% Indels: 16
DB: 1 Gaps: 1

US-09-940-235-4 (1-259) x US-09-471-349-11 (1-1782)

Qy 150 ProfileAlaGluLysCysPheAspHisAlaAlaGlyThrSerTyrValValGlyGluThr 169
Db 254 CCCNACTGAGAAGTGTTCATGATCTGCTGGGACTTCCTATGTGGTGGAGAAACG 313
Qy 170 TrpGluLysProTyrGlnGlyTrpMetMetValAspCysThrCysLeuGlyGluGlySer 189
Db 314 TGGGA-----GAGGCAGC 327
Qy 190 GlyArgIleThrCysThrSerArgAsnArgCysAsnAspGlnAspThrArgThrSerTyr 209
Db 328 GGAGCGATCACTTCGACTTCCTAGAAAATAGATGCAACGATCAGGACACAGGACATCCCTAT 387
Qy 210 ArgIleGlyAspThrTrpSerLysLysAspAsnArgGlyAsnLeuGlnCysIleCys 229
Db 388 AGAATTGGAGACACCTGGAGCAAGAGATTAATCGAGAAACCTGCTCCAGTGCATCTGC 447
Qy 230 ThrGlyAsnGlyArgGlyGluTrpLysCysGluArgHisThrSerValGlnThrThrSer 249
Db 448 ACAGGCAACGGCCGAGGAGTGGAGTGTGAGAGGCACACCTCTGTGCAGACCACATCG 507
Qy 250 SerGlySerGlyProPheThrAspValArg 259
Db 508 AGCGGATCTGGCCCTTCACCGATGTTTCGT 537

RESULT 8
US-09-940-235-11
; Sequence 11, Application US/09940235
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sabni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammarra
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; TITLE OF INVENTION: PROTEIN
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/09/940,235
; CURRENT FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 1782

```

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; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hybrid cassette
US-09-940-235-11

Alignment Scores:
Pred. No.: 0.193 Length: 1782
Score: 497.50 Matches: 94
Percent Similarity: 85.45% Conservative: 0
Best Local Similarity: 85.45% Mismatches: 1
Query Match: 79.35% Indels: 16
DB: 1 Gaps: 1

US-09-940-235-4 (1-259) x US-09-940-235-11 (1-1782)
QY 150 ProfileAlaGluLysCysPheAspHisAlaAlaGlyThrSerTyrValValGlyGluThr 169
DB 254 CCCATAGCTGAGAGTGTCTTGTATCATGCTGCTGGGACTTCTATGTGTGCGGAGAAACG 313
QY 170 TrpGluLysProTyrGlnGlyTrpMetMetValAspCysThrCysLeuGlyGluGlySer 189
DB 314 TGGGA-----GAAGGCAGC 327
QY 190 GlyArgIleThrCysThrSerArgAsnArgCysAsnAspGlnAspThrArgThrSerTyr 209
DB 328 GGACGCATCACTTGCACCTTCTAGAAATAGATGCAACGATCAGGACACACATCCTAT 387
QY 210 ArgIleGlyAspThrTrpSerLysLysAspAsnArgGlyAsnLeuGlnCysIleCys 229
DB 388 AGAATTGGAGACACCTTGGAGCAAGAGATATCGAGGAAACCTCTCAGTGCATCTGC 447
QY 230 ThrGlyAsnGlyArgGlyGluTrpLysCysGluArgHisThrSerValGlnThrThrSer 249
DB 448 ACAGCAACGCGCGAGAGAGTGGAGTGTGAGAGGCACACCTCTGTGCAGACCATCG 507

RESULT 9
US-10-631-558-11
; Sequence 11, Application US/10631558
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chaith
; APPLICANT: Rajagopal, Kammara
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; TITLE OF INVENTION: PROTEIN
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/10/631,558
; PRIOR FILING DATE: 2003-07-31
; PRIOR APPLICATION NUMBER: US/09/940,235
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 1782
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hybrid cassette
US-10-631-558-11

```

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Alignment Scores:
Pred. No.: 0.193 Length: 1782
Score: 497.50 Matches: 94
Percent Similarity: 85.45% Conservative: 0
Best Local Similarity: 85.45% Mismatches: 1
Query Match: 79.35% Indels: 16
DB: 1 Gaps: 1

US-09-940-235-4 (1-259) x US-10-631-558-11 (1-1782)
QY 150 ProfileAlaGluLysCysPheAspHisAlaAlaGlyThrSerTyrValValGlyGluThr 169
DB 254 CCCATAGCTGAGAGTGTCTTGTATCATGCTGCTGGGACTTCTATGTGTGCGGAGAAACG 313
QY 170 TrpGluLysProTyrGlnGlyTrpMetMetValAspCysThrCysLeuGlyGluGlySer 189
DB 314 TGGGA-----GAAGGCAGC 327
QY 190 GlyArgIleThrCysThrSerArgAsnArgCysAsnAspGlnAspThrArgThrSerTyr 209
DB 328 GGACGCATCACTTGCACCTTCTAGAAATAGATGCAACGATCAGGACACACATCCTAT 387
QY 210 ArgIleGlyAspThrTrpSerLysLysAspAsnArgGlyAsnLeuGlnCysIleCys 229
DB 388 AGAATTGGAGACACCTTGGAGCAAGAGATATCGAGGAAACCTCTCAGTGCATCTGC 447
QY 230 ThrGlyAsnGlyArgGlyGluTrpLysCysGluArgHisThrSerValGlnThrThrSer 249
DB 448 ACAGCAACGCGCGAGAGAGTGGAGTGTGAGAGGCACACCTCTGTGCAGACCATCG 507

RESULT 10
US-09-471-349-10
; Sequence 10, Application US/094711349
; GENERAL INFORMATION:
; APPLICANT: Sahni, Girish
; APPLICANT: Kumar, Rajesh
; APPLICANT: Roy, Chaith
; APPLICANT: Rajagopal, Kammara
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PLASMINOGEN ACTIVATION CHARACTERISTICS AND A PROCESS FOR THE
; FILE REFERENCE: 07064/009001
; CURRENT APPLICATION NUMBER: US/09/471,349
; CURRENT FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 1661
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetically generated primer
US-09-471-349-10

Alignment Scores:
Pred. No.: 7.05 Length: 1661
Score: 148.50 Matches: 34
Percent Similarity: 54.44% Conservative: 15
Best Local Similarity: 37.78% Mismatches: 30
Query Match: 23.68% Indels: 11
DB: 1 Gaps: 6

US-09-940-235-4 (1-259) x US-09-471-349-10 (1-1661)

```

```

Qy 155 CysPheAspHisAlaAlaGlyThrSerTyrValValGlyGluThrTrpGluLysProTyr 174
Db 1401 TGTATGACAAAT-----GGAACACATATCAGATAAATCAACAGTGGAGCGGACCTAC 1454
Qy 175 GlnGlyTrpMetMetValAspCysThrCysLeuGlyGluGlySerGlyArgIleThrCys 194
Db 1455 CTAGGTAATGTGTGGTT---TGTACTTGTATTATGGA---GGAAGCCGAGGTTTAACTGC 1508
Qy 195 ThrSerArg-----AsnArgCysAsnAspGlnAspThrArgThrSerTyrArg 210
Db 1509 GAAAGTAAACCTGAAGCTGAAGAGACTTGTCTTGACAAGTACACTGGGAACACTTACC 1568
Qy 211 IleGlyAspThrTrpSerLys---LysAspAsnArgGlyAsnLeuGlnCysIleCys 229
Db 1569 GTGGGTGACACTTATGAGCGTCTCTAAAGACTCCATG-----ATCTGGGACTGTACCTGC 1622
Qy 230 ThrGlyAsnGlyArgGlyGluTrpLysCys 239
Db 1623 ATCGGGGCTGGCGGAGGAGAGATAAGCTGT 1652

RESULT 11
US-09-940-235-10
; Sequence 10, Application US/09940235
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammar
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; TITLE OF INVENTION: PROTEIN
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/09/940,235
; CURRENT FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 1661
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hybrid cassette
US-09-940-235-10

Alignment Scores:
Pred. No.: 7.05 Length: 1661
Score: 148.50 Matches: 34
Percent Similarity: 54.44% Conservative: 15
Best Local Similarity: 37.78% Mismatches: 30
Query Match: 23.68% Indels: 11
DB: 1 Gaps: 6

US-09-940-235-4 (1-259) x US-09-940-235-10 (1-1661)
Qy 155 CysPheAspHisAlaAlaGlyThrSerTyrValValGlyGluThrTrpGluLysProTyr 174
Db 1401 TGTATGACAAAT-----GGAACACATATCAGATAAATCAACAGTGGAGCGGACCTAC 1454
Qy 175 GlnGlyTrpMetMetValAspCysThrCysLeuGlyGluGlySerGlyArgIleThrCys 194
Db 1455 CTAGGTAATGTGTGGTT---TGTACTTGTATTATGGA---GGAAGCCGAGGTTTAACTGC 1508
Qy 195 ThrSerArg-----AsnArgCysAsnAspGlnAspThrArgThrSerTyrArg 210
Db 1509 GAAAGTAAACCTGAAGCTGAAGAGACTTGTCTTGACAAGTACACTGGGAACACTTACC 1568
Qy 211 IleGlyAspThrTrpSerLys---LysAspAsnArgGlyAsnLeuGlnCysIleCys 229
Db 1569 GTGGGTGACACTTATGAGCGTCTCTAAAGACTCCATG-----ATCTGGGACTGTACCTGC 1622
Qy 230 ThrGlyAsnGlyArgGlyGluTrpLysCys 239
Db 1623 ATCGGGGCTGGCGGAGGAGAGATAAGCTGT 1652

RESULT 12
US-10-631-558-10
; Sequence 10, Application US/10631558
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammar
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; TITLE OF INVENTION: PROTEIN
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/10/631,558
; CURRENT FILING DATE: 2003-07-31
; PRIOR APPLICATION NUMBER: US/09/940,235
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 1661
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hybrid cassette
US-10-631-558-10

Alignment Scores:
Pred. No.: 7.05 Length: 1661
Score: 148.50 Matches: 34
Percent Similarity: 54.44% Conservative: 15
Best Local Similarity: 37.78% Mismatches: 30
Query Match: 23.68% Indels: 11
DB: 1 Gaps: 6

US-09-940-235-4 (1-259) x US-10-631-558-10 (1-1661)
Qy 155 CysPheAspHisAlaAlaGlyThrSerTyrValValGlyGluThrTrpGluLysProTyr 174
Db 1401 TGTATGACAAAT-----GGAACACATATCAGATAAATCAACAGTGGAGCGGACCTAC 1454
Qy 175 GlnGlyTrpMetMetValAspCysThrCysLeuGlyGluGlySerGlyArgIleThrCys 194
Db 1455 CTAGGTAATGTGTGGTT---TGTACTTGTATTATGGA---GGAAGCCGAGGTTTAACTGC 1508
Qy 195 ThrSerArg-----AsnArgCysAsnAspGlnAspThrArgThrSerTyrArg 210
Db 1509 GAAAGTAAACCTGAAGCTGAAGAGACTTGTCTTGACAAGTACACTGGGAACACTTACC 1568
Qy 211 IleGlyAspThrTrpSerLys---LysAspAsnArgGlyAsnLeuGlnCysIleCys 229
Db 1569 GTGGGTGACACTTATGAGCGTCTCTAAAGACTCCATG-----ATCTGGGACTGTACCTGC 1622
Qy 230 ThrGlyAsnGlyArgGlyGluTrpLysCys 239
Db 1623 ATCGGGGCTGGCGGAGGAGAGATAAGCTGT 1652

```

**PRIOR FILING DATE:** 1998-12-24  
; NUMBER OF SEQ ID NOS: 28  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 9

LENGTH: 1541  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Hybrid cassette  
US-09-940-235-9

**Alignment Scores:**

Pred. No.:	17.9	Length:	1541
Score:	45.00	Matches:	13
Percent Similarity:	40.82%	Conservative:	7
Best Local Similarity:	26.53%	Mismatches:	13
Query Match:	7.18%	Indels:	16
DB:	1	Gaps:	2

US-09-940-235-4 (1-259) x US-09-940-235-9 (1-1541)

Qy 152 AlaGluLysCysPheAspHisAlaAGlyThrSerTyrrValValgLyGluThrTrpGlu 171  
| | | | |  
Db 1497 GCACAGAGGTGCCTTCAC-----ACTTCCACTCTCGGCCGGT----- 1456

Qy 172 LysProTyrrGlnGlyTrpMetMetValAspCysThrCysLeuglyGluGlySerGlyArg 191  
| | | | |  
Db 1455 -----TGCTGTGCAGATGCACCTGGAGCATTTTC 1426

Qy 192 IleThrCysThrSerArgAsnAraGlys 200  
| | | | |  
Db 1425 CTCGATTATCTCTTCTGCTCCAGGTGT 1399

**RESULT 15**  
US-10-631-558-9/c  
Sequence 9, Application US/10631558  
GENERAL INFORMATION:  
APPLICANT: Kumar, Rajesh  
APPLICANT: Sahni, Girish  
APPLICANT: Roy, Chait  
APPLICANT: Rajagopal, Kammarra  
APPLICANT: Nihalani, Deepak  
APPLICANT: Sundaram, Vasudha  
APPLICANT: Yadav, Mahavar  
TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE  
TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION  
TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID  
FILE REFERENCE: 07064-009002  
CURRENT APPLICATION NUMBER: US/10/631,558  
CURRENT FILING DATE: 2003-07-31  
PRIOR APPLICATION NUMBER: US/09/940,235  
PRIOR FILING DATE: 2002-04-09  
PRIOR APPLICATION NUMBER: 09/471,349  
PRIOR FILING DATE: 1999-12-23  
PRIOR APPLICATION NUMBER: IN 3825/DEL/98  
PRIOR FILING DATE: 1998-12-24  
NUMBER OF SEQ ID NOS: 28  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 9  
LENGTH: 1541  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Hybrid cassette  
US-10-631-558-9

**Alignment Scores:**

Pred. No.:	17.9	Length:	1541
Score:	45.00	Matches:	13
Percent Similarity:	40.82%	Conservative:	7
Best Local Similarity:	26.53%	Mismatches:	13
Query Match:	7.18%	Indels:	16

**RESULT 13**  
US-09-471-349-9/c  
Sequence 9, Application US/09471349  
GENERAL INFORMATION:  
APPLICANT: Sahni, Girish  
APPLICANT: Kumar, Rajesh  
APPLICANT: Roy, Chaiti  
APPLICANT: Rajagopal, Kammarra  
APPLICANT: Nihalani, Deepak  
APPLICANT: Sundaram, Vasudha  
APPLICANT: Yadav, Mahavar  
TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE  
TITLE OF INVENTION: PLASMINOGEN ACTIVATION CHARACTERISTICS AND A PROCESS FOR THE  
PREPARATION OF SAID PROTEINS  
FILE REFERENCE: 07064/009001  
CURRENT APPLICATION NUMBER: US/09/471,349  
CURRENT FILING DATE: 1999-12-23  
PRIOR APPLICATION NUMBER: IN 3825/DEL/98  
PRIOR FILING DATE: 1998-12-24  
NUMBER OF SEQ ID NOS: 24  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 9  
LENGTH: 1541  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Synthetically generated primer  
US-09-471-349-9

**Alignment Scores:**

Pred. No.:	17.9	Length:	1541
Score:	45.00	Matches:	13
Percent Similarity:	40.82%	Conservative:	7
Best Local Similarity:	26.53%	Mismatches:	13
Query Match:	7.18%	Indels:	16
DB:	1	Gaps:	2

US-09-940-235-4 (1-259) x US-09-471-349-9 (1-1541)

Qy 152 AlaGluLysCysPheAspHisAlaAGlyThrSerTyrrValValgLyGluThrTrpGlu 171  
| | | | |  
Db 1497 GCACAGAGGTGCCTTCAC-----ACTTCCACTCTCGGCCGGT----- 1456

Qy 172 LysProTyrrGlnGlyTrpMetMetValAspCysThrCysLeuglyGluGlySerGlyArg 191  
| | | | |  
Db 1455 -----TGCTGTGCAGATGCACCTGGAGCATTTTC 1426

Qy 192 IleThrCysThrSerArgAsnAraGlys 200  
| | | | |  
Db 1425 CTCGATTATCTCTTCTGCTCCAGGTGT 1399

**RESULT 14**  
US-09-940-235-9/c  
Sequence 9, Application US/09940235  
GENERAL INFORMATION:  
APPLICANT: Kumar, Rajesh  
APPLICANT: Sahni, Girish  
APPLICANT: Roy, Chait  
APPLICANT: Rajagopal, Kammarra  
APPLICANT: Nihalani, Deepak  
APPLICANT: Sundaram, Vasudha  
APPLICANT: Yadav, Mahavar  
TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE  
TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION  
TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID  
FILE REFERENCE: 07064-009002  
CURRENT APPLICATION NUMBER: US/09/940,235  
CURRENT FILING DATE: 2002-04-09  
PRIOR APPLICATION NUMBER: 09/471,349  
PRIOR FILING DATE: 1999-12-23  
PRIOR APPLICATION NUMBER: IN 3825/DEL/98

```

; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 1541
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hybrid cassette
US-09-940-235-9

Alignment Scores:
Pred. No.: 17.9 Length: 1541
Score: 45.00 Matches: 13
Percent Similarity: 40.82% Conservative: 7
Best Local Similarity: 26.53% Mismatches: 13
Query Match: 7.18% Indels: 16
DB: 1 Gaps: 2

US-09-940-235-4 (1-259) x US-09-940-235-9 (1-1541)
Qy 152 AlaGluLysCysPheAspHisAlaGlyThrSerTyValValGlyGluThrTrpGlu 171
|||:::|||||
Db 1497 GCACAGAGGTGCCTCTCAC-----ACTTCCACTCTCTCGGCCGT----- 1456
|||:::|||||

Qy 172 LysProTyrglnGlyTrpMetValAspCysThrCysLeuglyGluGlySerGlyArg 191
|||:::|||||
Db 1455 -----TGCTGTGCAGATGCACCTGGACGAGTTTC 1426
|||:::|||||

Qy 192 IleThrCysThrSerArgAsnArgCys 200
:::|||||
Db 1425 CTCGATTATCCTTCTTGCTCCAGGTGT 1399
|||:::|||||

RESULT 15
US-10-631-558-9/c
; Sequence 9, Application US/10631558
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammarra
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; TITLE OF INVENTION: PROTEIN
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/10/631,558
; CURRENT FILING DATE: 2003-07-31
; PRIOR APPLICATION NUMBER: US/09/940,235
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 1541
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hybrid cassette
US-10-631-558-9

Alignment Scores:
Pred. No.: 17.9 Length: 1541
Score: 45.00 Matches: 13
Percent Similarity: 40.82% Conservative: 7
Best Local Similarity: 26.53% Mismatches: 13
Query Match: 7.18% Indels: 16
DB: 1 Gaps: 2

; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 1541
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Syntheically generated primer
US-09-471-349-9

Alignment Scores:
Pred. No.: 17.9 Length: 1541
Score: 45.00 Matches: 13
Percent Similarity: 40.82% Conservative: 7
Best Local Similarity: 26.53% Mismatches: 13
Query Match: 7.18% Indels: 16
DB: 1 Gaps: 2

US-09-940-235-4 (1-259) x US-09-471-349-9 (1-1541)
Qy 152 AlaGluLysCysPheAspHisAlaGlyThrSerTyValValGlyGluThrTrpGlu 171
|||:::|||||
Db 1497 GCACAGAGGTGCCTCTCAC-----ACTTCCACTCTCTCGGCCGT----- 1456
|||:::|||||

Qy 172 LysProTyrglnGlyTrpMetValAspCysThrCysLeuglyGluGlySerGlyArg 191
|||:::|||||
Db 1455 -----TGCTGTGCAGATGCACCTGGACGAGTTTC 1426
|||:::|||||

Qy 192 IleThrCysThrSerArgAsnArgCys 200
:::|||||
Db 1425 CTCGATTATCCTTCTTGCTCCAGGTGT 1399
|||:::|||||

RESULT 14
US-09-940-235-9/c
; Sequence 9, Application US/09940235
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammarra
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; TITLE OF INVENTION: PROTEIN
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/09/940,235
; CURRENT FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98

```

DB: 1 Gaps: 2

US-09-940-235-4 (1-259) x US-10-631-558-9 (1-1541)

Qy 152 AlaGluLysCysPheAspHisAlaAlaGlyThrSerTyValValGlyGluThrTrpGlu 171  
 Db 1497 GCACAGAGGTGCTCTCTAC-----ACTTCCACTCTCTCGGCCGT----- 1456

Qy 172 LysProTyGlnGlyTrpMetMetValAspCysThrCysLeuGlyGluGlySerGlyArg 191  
 Db 1455 -----TGCTGTGCAGATGCATCGACGAGGTTTC 1426

Qy 192 IleThrCysThrSerArgAsnArgCys 200  
 Db 1425 CTCGATTATCTCTTCTTCTCCAGGTGT 1399

RESULT 16  
 US-09-471-349-11/c  
 ; Sequence 11, Application US/09471349  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sahni, Girish  
 ; APPLICANT: Kumar, Rajesh  
 ; APPLICANT: Roy, Chait  
 ; APPLICANT: Rajagopal, Kammar  
 ; APPLICANT: Nihalani, Deepak  
 ; APPLICANT: Sundaram, Vasudha  
 ; APPLICANT: Yadav, Mahavir  
 ; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE  
 ; TITLE OF INVENTION: PLASMINOGEN ACTIVATION CHARACTERISTICS AND A PROCESS FOR THE  
 ; FILE REFERENCE: 07064/009001  
 ; CURRENT APPLICATION NUMBER: US/09/471,349  
 ; PRIOR FILING DATE: 1999-12-23  
 ; PRIOR FILING DATE: 1998-12-24  
 ; NUMBER OF SEQ ID NOS: 24  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 11  
 ; LENGTH: 1782  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Synthetically generated primer  
 US-09-471-349-11

Alignment Scores:  
 Pred. No.: 18 Length: 1782  
 Score: 45.00 Matches: 13  
 Percent Similarity: 40.82% Conservative: 7  
 Best Local Similarity: 26.53% Mismatches: 13  
 Query Match: 7.18% Indels: 16  
 DB: 1 Gaps: 2

US-09-940-235-4 (1-259) x US-09-471-349-11 (1-1782)

Qy 152 AlaGluLysCysPheAspHisAlaAlaGlyThrSerTyValValGlyGluThrTrpGlu 171  
 Db 496 GCACAGAGGTGCTCTCTAC-----ACTTCCACTCTCTCGGCCGT----- 455

Qy 172 LysProTyGlnGlyTrpMetMetValAspCysThrCysLeuGlyGluGlySerGlyArg 191  
 Db 454 -----TGCTGTGCAGATGCATCGACGAGGTTTC 425

Qy 192 IleThrCysThrSerArgAsnArgCys 200  
 Db 424 CTCGATTATCTCTTCTTCTCCAGGTGT 398

RESULT 18  
 US-10-631-558-11/c  
 ; Sequence 11, Application US/10631558  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Kumar, Rajesh  
 ; APPLICANT: Sahni, Girish  
 ; APPLICANT: Roy, Chait  
 ; APPLICANT: Rajagopal, Kammar  
 ; APPLICANT: Nihalani, Deepak  
 ; APPLICANT: Sundaram, Vasudha  
 ; APPLICANT: Yadav, Mahavir  
 ; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE  
 ; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION  
 ; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID  
 ; FILE REFERENCE: 07064-009002  
 ; CURRENT APPLICATION NUMBER: US/10/631,558  
 ; CURRENT FILING DATE: 2003-07-31  
 ; PRIOR APPLICATION NUMBER: US/09/940,235  
 ; PRIOR FILING DATE: 2002-04-09  
 ; PRIOR APPLICATION NUMBER: 09/471,349  
 ; PRIOR FILING DATE: 1999-12-23  
 ; PRIOR APPLICATION NUMBER: IN 3825/DEL/98  
 ; PRIOR FILING DATE: 1998-12-24  
 ; NUMBER OF SEQ ID NOS: 28

US-09-940-235-11/c  
 ; Sequence 11, Application US/09940235  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Kumar, Rajesh  
 ; APPLICANT: Sahni, Girish  
 ; APPLICANT: Roy, Chait  
 ; APPLICANT: Rajagopal, Kammar  
 ; APPLICANT: Nihalani, Deepak  
 ; APPLICANT: Sundaram, Vasudha  
 ; APPLICANT: Yadav, Mahavir  
 ; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE  
 ; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION  
 ; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID



; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 11

; LENGTH: 1782

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Hybrid cassette

US-10-631-558-11

Alignment Scores:

Pred. No.:	18	Length:	1782
Score:	45.00	Matches:	13
Percent Similarity:	40.82%	Conservative:	7
Best Local Similarity:	26.53%	Mismatches:	13
Query Match:	7.18%	Indels:	16
DB:	1	Gaps:	2

US-09-940-235-4 (1-259) x US-10-631-558-11 (1-1782)

Qy 152 AlaGluLysCysPheAspHisAlaAlaGlyThrSerTyrValValGlyGluThrTrpGlu 171

Db 496 GCACAGAGGTGCTCTCTCAC-----ACTTCCACTCTCTCGGCCGT----- 455

Qy 172 LysProTyrGlnGlyTrpMetValAspCysThrCysLeuGlyGluGlySerGlyArg 191

Db 454 -----TGCTGTGCAGATGCACCTGGAGCAGGTTTC 425

Qy 192 IleThrCysThrSerArgAsnArgCys 200

Db 424 CTCGATTATCTCTTGTCTCCAGGTGT 398

RESULT 19

US-09-471-349-12/c

; Sequence 12, Application US/09471349

; GENERAL INFORMATION:

; APPLICANT: Sahni, Girish

; APPLICANT: Kumar, Rajesh

; APPLICANT: Roy, Chaiti

; APPLICANT: Rajagopal, Kammar

; APPLICANT: Nihalani, Deepak

; APPLICANT: Sundaram, Vasudha

; APPLICANT: Yadav, Mahavir

; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE

; TITLE OF INVENTION: PLASMINOGEN ACTIVATION CHARACTERISTICS AND A PROCESS FOR THE

; FILE OF INVENTION: PREPARATION OF SAID PROTEINS

; FILE REFERENCE: 07064/009001

; CURRENT APPLICATION NUMBER: US/09/471,349

; CURRENT FILING DATE: 1999-12-23

; PRIOR FILING DATE: 1998-12-24

; NUMBER OF SEQ ID NOS: 24

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 12

; LENGTH: 2096

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Synthetically generated primer

US-09-471-349-12

Alignment Scores:

Pred. No.:	18.1	Length:	2096
Score:	45.00	Matches:	13
Percent Similarity:	40.82%	Conservative:	7
Best Local Similarity:	26.53%	Mismatches:	13
Query Match:	7.18%	Indels:	16
DB:	1	Gaps:	2

US-09-940-235-4 (1-259) x US-09-471-349-12 (1-2096)

Qy 152 AlaGluLysCysPheAspHisAlaAlaGlyThrSerTyrValValGlyGluThrTrpGlu 171

Db 2052 GCACAGAGGTGCTCTCTCAC-----ACTTCCACTCTCTCGGCCGT----- 2011

Qy 172 LysProTyrGlnGlyTrpMetValAspCysThrCysLeuGlyGluGlySerGlyArg 191

Db 2010 -----TGCTGTGCAGATGCACCTGGAGCAGGTTTC 1981

Qy 192 IleThrCysThrSerArgAsnArgCys 200

Db 1980 CTCGATTATCTCTTGTCTCCAGGTGT 1954

RESULT 20

US-09-940-235-12/c

; Sequence 12, Application US/09940235

; GENERAL INFORMATION:

; APPLICANT: Kumar, Rajesh

; APPLICANT: Sahni, Girish

; APPLICANT: Roy, Chait

; APPLICANT: Rajagopal, Kammar

; APPLICANT: Nihalani, Deepak

; APPLICANT: Sundaram, Vasudha

; APPLICANT: Yadav, Mahavir

; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE

; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION

; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID

; TITLE OF INVENTION: PROTEIN

; FILE REFERENCE: 07064-009002

; CURRENT APPLICATION NUMBER: US/09/940,235

; CURRENT FILING DATE: 2002-04-09

; PRIOR APPLICATION NUMBER: 09/471,349

; PRIOR FILING DATE: 1999-12-23

; PRIOR APPLICATION NUMBER: IN 3825/DEL/98

; NUMBER OF SEQ ID NOS: 28

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 12

; LENGTH: 2096

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Hybrid cassette

US-09-940-235-12

Alignment Scores:

Pred. No.:	18.1	Length:	2096
Score:	45.00	Matches:	13
Percent Similarity:	40.82%	Conservative:	7
Best Local Similarity:	26.53%	Mismatches:	13
Query Match:	7.18%	Indels:	16
DB:	1	Gaps:	2

US-09-940-235-4 (1-259) x US-09-940-235-12 (1-2096)

Qy 152 AlaGluLysCysPheAspHisAlaAlaGlyThrSerTyrValValGlyGluThrTrpGlu 171

Db 2052 GCACAGAGGTGCTCTCTCAC-----ACTTCCACTCTCTCGGCCGT----- 2011

Qy 172 LysProTyrGlnGlyTrpMetValAspCysThrCysLeuGlyGluGlySerGlyArg 191

Db 2010 -----TGCTGTGCAGATGCACCTGGAGCAGGTTTC 1981

Qy 192 IleThrCysThrSerArgAsnArgCys 200

Db 1980 CTCGATTATCTCTTGTCTCCAGGTGT 1954

RESULT 21

US-10-631-558-12/c

; Sequence 12, Application US/10631558

; GENERAL INFORMATION:

; APPLICANT: Kumar, Rajesh

; APPLICANT: Sahni, Girish

; APPLICANT: Roy, Chait

; APPLICANT: Rajagopal, Kammar

; APPLICANT: Nihalani, Deepak

; APPLICANT: Sundaram, Vasudha

```
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; TITLE OF INVENTION: PROTEIN
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/10/631,558
; CURRENT FILING DATE: 2003-07-31
; PRIOR APPLICATION NUMBER: US/09/940,235
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 2096
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hybrid cassette
US-10-631-558-12

Alignment Scores:
Pred. No.:      18.1      Length:      2096
Score:          45.00     Matches:      13
Percent Similarity: 40.82% Conservative: 7
Best Local Similarity: 26.53% Mismatches: 13
Query Match:      7.18%  Indels:      16
DB:              1      Gaps:       2

US-09-940-235-4 (1-259) x US-10-631-558-12 (1-2096)
Qy 152 AlaGluLysCysPheAspHisAlaGlyThrSerTyValValGlyGluThrTrpGlu 171
Db 2052 GCACAGAGGTGCTCTCAC-----ACTTCCACTCTCTCGGCGT----- 2011
Qy 172 LysProTyGlnGlyTrpMetValAspCysThrCysLeuGlyGluGlySerGlyArg 191
Db 2010 -----TGCCTGTGCAGATGCACCTGGAGCAGGTTC 1981
Qy 192 IleThrCysThrSerArgAsnArgCys 200
Db 1980 CTCGATTATCCTTCTGTCTCCAGGTGT 1954

RESULT 22
US-09-569-920-3
; Sequence 3, Application US/09569920
; GENERAL INFORMATION:
; APPLICANT: Reddy, Vemuri B.
; APPLICANT: Lerner, Ethan
; TITLE OF INVENTION: VASODILATOR-THROMBOLYTIC FUSION PROTEIN
; TITLE OF INVENTION: AND CONJUGATES
; FILE REFERENCE: 10284-026001
; CURRENT APPLICATION NUMBER: US/09/569,920
; CURRENT FILING DATE: 2000-05-11
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 8893
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic construct
US-09-569-920-3

Alignment Scores:
Pred. No.:      19.7      Length:      8893
Score:          38.50     Matches:      11
Percent Similarity: 38.64% Conservative: 6
Best Local Similarity: 25.00% Mismatches: 10
Query Match:      6.14%  Indels:      17

US-09-940-235-4 (1-259) x US-09-569-920-3 (1-8893)
Qy 184 CysLeuGly---GluGlySerGlyArgIleThrCysThrSerArgAsnArgCysAsnAsp 202
Db 3881 TGCTCGGCGCGTCTGCGTCTGCGTGGCTGGCATAAATATCTCACTCGCAATCAAAATCA 3822
Qy 203 GlnAspThrArgThrSerTyArgIle 211
Db 3821 GCCGATAGCGGAACGGAGGCGACTG 3795

RESULT 24
US-09-471-349-1/c
; Sequence 1, Application US/09471349
; GENERAL INFORMATION:
; APPLICANT: Sahni, Girish
; APPLICANT: Kumar, Rajesh
; APPLICANT: Roy, Chaiti
; APPLICANT: Rajagopal, Kammarra
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE PROTEINS POSSESSING ALTERED
; TITLE OF INVENTION: PLASMINOGEN ACTIVATION CHARACTERISTICS AND A PROCESS FOR THE
; TITLE OF INVENTION: PREPARATION OF SAID PROTEINS
; FILE REFERENCE: 07064/009001
; CURRENT APPLICATION NUMBER: US/09/471,349
; CURRENT FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
```

```
DB:              1      Gaps:       2

US-09-940-235-4 (1-259) x US-09-569-920-3 (1-8893)
Qy 199 ArgCysAsnAspGlnAspThrArgThrSerTyArgIleGlyAspThrTrpSerLys--- 217
Db 3933 AGATGCTCC-----ACGCCAGTCGGTGTTACCGTCTTCTCATGGGAGAAATA 3977
Qy 218 -----LysAspAsnArgGlyAsnLeuLeuGln 226
Db 3978 ATACTGTTGATGGGTGTTCTGGTCAGAGACATCAAGAAATAACGCCGGAACATTAGTCAG 4037
Qy 227 CysIleCysThr 230
Db 4038 GCAGCTTCCACA 4049

RESULT 23
US-09-569-920-3/c
; Sequence 3, Application US/09569920
; GENERAL INFORMATION:
; APPLICANT: Reddy, Vemuri B.
; APPLICANT: Lerner, Ethan
; TITLE OF INVENTION: VASODILATOR-THROMBOLYTIC FUSION PROTEIN
; TITLE OF INVENTION: AND CONJUGATES
; FILE REFERENCE: 10284-026001
; CURRENT APPLICATION NUMBER: US/09/569,920
; CURRENT FILING DATE: 2000-05-11
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 8893
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic construct
US-09-569-920-3

Alignment Scores:
Pred. No.:      19.8      Length:      8893
Score:          37.50     Matches:      10
Percent Similarity: 51.72% Conservative: 5
Best Local Similarity: 34.48% Mismatches: 13
Query Match:      5.98%  Indels:      1
DB:              1      Gaps:       1

US-09-940-235-4 (1-259) x US-09-569-920-3 (1-8893)
Qy 184 CysLeuGly---GluGlySerGlyArgIleThrCysThrSerArgAsnArgCysAsnAsp 202
Db 3881 TGCTCGGCGCGTCTGCGTCTGCGTGGCTGGCATAAATATCTCACTCGCAATCAAAATCA 3822
Qy 203 GlnAspThrArgThrSerTyArgIle 211
Db 3821 GCCGATAGCGGAACGGAGGCGACTG 3795

RESULT 24
US-09-471-349-1/c
; Sequence 1, Application US/09471349
; GENERAL INFORMATION:
; APPLICANT: Sahni, Girish
; APPLICANT: Kumar, Rajesh
; APPLICANT: Roy, Chaiti
; APPLICANT: Rajagopal, Kammarra
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE PROTEINS POSSESSING ALTERED
; TITLE OF INVENTION: PLASMINOGEN ACTIVATION CHARACTERISTICS AND A PROCESS FOR THE
; TITLE OF INVENTION: PREPARATION OF SAID PROTEINS
; FILE REFERENCE: 07064/009001
; CURRENT APPLICATION NUMBER: US/09/471,349
; CURRENT FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
```

```
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1245
; TYPE: DNA
; ORGANISM: Streptococcus equisimilis
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(1242)
US-09-471-349-1

Alignment Scores:
Pred. No.: 19.6 Length: 1245
Score: 33.50 Matches: 10
Percent Similarity: 41.94% Conservative: 3
Best Local Similarity: 32.26% Mismatches: 6
Query Match: 5.34% Indels: 12
DB: 1 Gaps: 1

US-09-940-235-4 (1-259) x US-09-471-349-1 (1-1245)
QY 168 GluThrTrpGlu-LysProTyrGlnGlyTrpMetMetValAspCysThr----- 183
Db 537 GAGACCTGGTCTGAAATCGTCATCAGGGTTTAAAGGGAGTAACCTGTACAGTATATTCAC 478
QY 184 -----CysLeuGly 186
Db 477 ATCAACAGATTTCGCTTGGTTTGTATTGGT 447

RESULT 25
US-09-940-235-1/c
; Sequence 1, Application US/09940235
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammar
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; TITLE OF INVENTION: PROTEIN
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/10/631,558
; PRIOR FILING DATE: 2003-07-31
; PRIOR APPLICATION NUMBER: US/09/940,235
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1245
; TYPE: DNA
; ORGANISM: Streptococcus equisimilis
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(1242)
US-10-631-558-1

Alignment Scores:
Pred. No.: 19.6 Length: 1245
Score: 33.50 Matches: 10
Percent Similarity: 41.94% Conservative: 3
Best Local Similarity: 32.26% Mismatches: 6
Query Match: 5.34% Indels: 12
DB: 1 Gaps: 1

US-09-940-235-4 (1-259) x US-10-631-558-1 (1-1245)
QY 168 GluThrTrpGlu-LysProTyrGlnGlyTrpMetMetValAspCysThr----- 183
Db 537 GAGACCTGGTCTGAAATCGTCATCAGGGTTTAAAGGGAGTAACCTGTACAGTATATTCAC 478
QY 184 -----CysLeuGly 186
Db 477 ATCAACAGATTTCGCTTGGTTTGTATTGGT 447

RESULT 27
US-09-569-920-2/c
; Sequence 2, Application US/09569920
; GENERAL INFORMATION:
; APPLICANT: Reddy, Vemuri B.
; APPLICANT: Lerner, Ethan
; TITLE OF INVENTION: VASODILATOR-THROMBOLYTIC FUSION PROTEIN
; TITLE OF INVENTION: AND CONJUGATES
; FILE REFERENCE: 10284-026001
; CURRENT APPLICATION NUMBER: US/09/569,920
; CURRENT FILING DATE: 2000-05-11
; NUMBER OF SEQ ID NOS: 9
```

```
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 1254
; TYPE: DNA
; ORGANISM: Streptococcus pyogenes
US-09-569-920-2

Alignment Scores:
Pred. No.:      19.6      Length:      1254
Score:          33.50     Matches:      10
Percent Similarity: 41.94% Conservative: 3
Best Local Similarity: 32.26% Mismatches: 6
Query Match:     5.34%   Indels:      12
DB:              1      Gaps:       1

US-09-940-235-4 (1-259) x US-09-569-920-2 (1-1254)

Qy 168 GluThrTrpGlu-LysProTyrGlnGlyTrpMetMetValaspCysThr----- 183
|||:|||
Db 543 GAGACCTGGTCTGAAATCGTCATCAGGGTTTAAGGGAGTAAACTGTACAGTATATTTCCAC 484
|||:|||

Qy 184 -----CysLeuGly 186
|||:|||
Db 483 ATCAACAGATTTCGCTGGTTTGTATTGGT 453

RESULT 28
US-09-471-349-6/c
; Sequence 6, Application US/09471349
; GENERAL INFORMATION:
; APPLICANT: Sahni, Girish
; APPLICANT: Kumar, Rajesh
; APPLICANT: Roy, Chaiti
; APPLICANT: Rajagopal, Kammar
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; FILE REFERENCE: 07064/009001
; CURRENT APPLICATION NUMBER: US/09/471,349
; CURRENT FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 1327
; TYPE: DNA
; ORGANISM: Streptococcus equisimilis
US-09-940-235-6

Alignment Scores:
Pred. No.:      19.6      Length:      1327
Score:          33.50     Matches:      10
Percent Similarity: 41.94% Conservative: 3
Best Local Similarity: 32.26% Mismatches: 6
Query Match:     5.34%   Indels:      12
DB:              1      Gaps:       1

US-09-940-235-4 (1-259) x US-09-940-235-6 (1-1327)

Qy 168 GluThrTrpGlu-LysProTyrGlnGlyTrpMetMetValaspCysThr----- 183
|||:|||
Db 619 GAGACCTGGTCTGAAATCGTCATCAGGGTTTAAGGGAGTAAACTGTACAGTATATTTCCAC 560
|||:|||

Qy 184 -----CysLeuGly 186
|||:|||
Db 559 ATCAACAGATTTCGCTGGTTTGTATTGGT 529

RESULT 30
US-10-631-558-6/c
; Sequence 6, Application US/10631558
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chaiti
; APPLICANT: Rajagopal, Kammar
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/10/631,558
; CURRENT FILING DATE: 2003-07-31
; PRIOR APPLICATION NUMBER: US/09/940,235
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 4.0

; RESULT 29
; US-09-471-349-6
; FEATURE:
; OTHER INFORMATION: Synthetically generated primer
US-09-471-349-6

Alignment Scores:
Pred. No.:      19.6      Length:      1327
Score:          33.50     Matches:      10
Percent Similarity: 41.94% Conservative: 3
Best Local Similarity: 32.26% Mismatches: 6
Query Match:     5.34%   Indels:      12
DB:              1      Gaps:       1

US-09-940-235-4 (1-259) x US-09-471-349-6 (1-1327)

Qy 168 GluThrTrpGlu-LysProTyrGlnGlyTrpMetMetValaspCysThr----- 183
|||:|||
Db 619 GAGACCTGGTCTGAAATCGTCATCAGGGTTTAAGGGAGTAAACTGTACAGTATATTTCCAC 560
|||:|||

Qy 184 -----CysLeuGly 186
|||:|||
Db 559 ATCAACAGATTTCGCTGGTTTGTATTGGT 529

RESULT 29
```

```
; SEQ ID NO 6
; LENGTH: 1327
; TYPE: DNA
; ORGANISM: Streptococcus equisimilis
US-10-631-558-6

Alignment Scores:
Pred. No.: 19.6 Length: 1327
Score: 33.50 Matches: 10
Percent Similarity: 41.94% Conservative: 3
Best Local Similarity: 32.26% Mismatches: 6
Query Match: 5.34% Indels: 12
DB: 1 Gaps: 1

US-09-940-235-4 (1-259) x US-10-631-558-6 (1-1327)
QY 168 GluThrTrpGlu-LysProTyrGlnGlyTrpMetMetValAspCysThr----- 183
Db 619 GAGACCTGGTCTGAAATCGTCATCAGGGTTTAAGGAGTAACACTGTACAGTATATCCAC 560
QY 184 -----CysLeuGly 186
Db 559 ATCAACAGATTTCGCTTGGTTTGTATTGGT 529

RESULT 31
US-09-471-349-5/c
; Sequence 5, Application US/09471349
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammar
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; FILE REFERENCE: 07064/009001
; CURRENT APPLICATION NUMBER: US/09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 1377
; TYPE: DNA
; ORGANISM: Streptococcus equisimilis
US-09-471-349-5

Alignment Scores:
Pred. No.: 19.6 Length: 1377
Score: 33.50 Matches: 10
Percent Similarity: 41.94% Conservative: 3
Best Local Similarity: 32.26% Mismatches: 6
Query Match: 5.34% Indels: 12
DB: 1 Gaps: 1

US-09-940-235-4 (1-259) x US-09-471-349-5 (1-1377)
QY 168 GluThrTrpGlu-LysProTyrGlnGlyTrpMetMetValAspCysThr----- 183
Db 669 GAGACCTGGTCTGAAATCGTCATCAGGGTTTAAGGAGTAACACTGTACAGTATATCCAC 610
QY 184 -----CysLeuGly 186
Db 609 ATCAACAGATTTCGCTTGGTTTGTATTGGT 579

RESULT 32
US-09-940-235-5/c
; Sequence 5, Application US/09940235
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammar
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/10/631,558
; CURRENT FILING DATE: 2003-07-31
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: US/09/940,235
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 1377
; TYPE: DNA
```

```
; ORGANISM: Streptococcus equisimilis
US-10-631-558-5

Alignment Scores:
Pred. No.: 19.6 Length: 1377
Score: 33.50 Matches: 10
Percent Similarity: 41.94% Conservative: 3
Best Local Similarity: 32.26% Mismatches: 6
Query Match: 5.34% Indels: 12
DB: 1 Gaps: 1

US-09-940-235-4 (1-259) x US-10-631-558-5 (1-1377)
Qy 168 GluThrTrpGlu-LysProTyrGlnGlyTrpMetMetValaspCysThr----- 183
Db 669 GAGACCTGGTCTGAAATCGTCATCAGGGTTTAAGGAGTAACCTGACAGTATATATCCAC 610

Qy 184 -----CysLeuGly 186
Db 609 ATCAACAGATTTCGCTTGGTTTGTATTGGT 579

RESULT 34
US-09-471-349-10/c
; Sequence 10, Application US/09471349
; GENERAL INFORMATION:
; APPLICANT: Sahni, Girish
; APPLICANT: Kumar, Rajesh
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammar
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 1661
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hybrid cassette
US-09-940-235-10

Alignment Scores:
Pred. No.: 19.7 Length: 1661
Score: 33.50 Matches: 10
Percent Similarity: 41.94% Conservative: 3
Best Local Similarity: 32.26% Mismatches: 6
Query Match: 5.34% Indels: 12
DB: 1 Gaps: 1

US-09-940-235-4 (1-259) x US-09-940-235-10 (1-1661)
Qy 168 GluThrTrpGlu-LysProTyrGlnGlyTrpMetMetValaspCysThr----- 183
Db 719 GAGACCTGGTCTGAAATCGTCATCAGGGTTTAAGGAGTAACCTGACAGTATATATCCAC 660

Qy 184 -----CysLeuGly 186
Db 659 ATCAACAGATTTCGCTTGGTTTGTATTGGT 629

RESULT 36
US-10-631-558-10/c
; Sequence 10, Application US/10631558
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammar
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/10/631,558
; CURRENT FILING DATE: 2003-07-31
; PRIOR APPLICATION NUMBER: US/09/940,235
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 1661
```

```
; ORGANISM: Streptococcus equisimilis
US-10-631-558-5

Alignment Scores:
Pred. No.: 19.6 Length: 1377
Score: 33.50 Matches: 10
Percent Similarity: 41.94% Conservative: 3
Best Local Similarity: 32.26% Mismatches: 6
Query Match: 5.34% Indels: 12
DB: 1 Gaps: 1

US-09-940-235-4 (1-259) x US-10-631-558-5 (1-1377)
Qy 168 GluThrTrpGlu-LysProTyrGlnGlyTrpMetMetValaspCysThr----- 183
Db 669 GAGACCTGGTCTGAAATCGTCATCAGGGTTTAAGGAGTAACCTGACAGTATATATCCAC 610

Qy 184 -----CysLeuGly 186
Db 609 ATCAACAGATTTCGCTTGGTTTGTATTGGT 579

RESULT 34
US-09-471-349-10/c
; Sequence 10, Application US/09471349
; GENERAL INFORMATION:
; APPLICANT: Sahni, Girish
; APPLICANT: Kumar, Rajesh
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammar
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 1661
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetically generated primer
US-09-471-349-10

Alignment Scores:
Pred. No.: 19.7 Length: 1661
Score: 33.50 Matches: 10
Percent Similarity: 41.94% Conservative: 3
Best Local Similarity: 32.26% Mismatches: 6
Query Match: 5.34% Indels: 12
DB: 1 Gaps: 1

US-09-940-235-4 (1-259) x US-09-471-349-10 (1-1661)
Qy 168 GluThrTrpGlu-LysProTyrGlnGlyTrpMetMetValaspCysThr----- 183
Db 719 GAGACCTGGTCTGAAATCGTCATCAGGGTTTAAGGAGTAACCTGACAGTATATATCCAC 660

Qy 184 -----CysLeuGly 186
Db 659 ATCAACAGATTTCGCTTGGTTTGTATTGGT 629

RESULT 35
US-09-940-235-10/c
; Sequence 10, Application US/09940235
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
```

```

; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hybrid cassette
US-10-631-558-10

Alignment Scores:
Pred. No.:      19.7      Length:      1661
Score:          33.50     Matches:      10
Percent Similarity: 41.94% Conservative: 3
Best Local Similarity: 32.26% Mismatches: 6
Query Match:      5.34%  Indels:      12
DB:               1      Gaps:       1

US-09-940-235-4 (1-259) x US-10-631-558-10 (1-1661)

Qy 168 GluThrTrpGlu-LysProTyrGlnGlyTrpMetMetValAspCysThr----- 183
Db 719 GAGACCTGGTCTGAAATCGTCATCAGGGTTTAAAGGGAGTAAACTGTACAGTATATTCAC 660

Qy 184 -----CysLeuGly 186
Db 659 ATCAACAGATTTCGCTTGGTTTGTATTGGT 629

RESULT 37
US-09-471-349-1
; Sequence 1, Application US/09471349
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chaiti
; APPLICANT: Rajagopal, Kammara
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; TITLE OF INVENTION: PROTEIN
; FILE REFERENCE: 07064/009001
; CURRENT APPLICATION NUMBER: US/09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1245
; TYPE: DNA
; ORGANISM: Streptococcus equisimilis
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(1242)
US-09-471-349-1

Alignment Scores:
Pred. No.:      19.9      Length:      1245
Score:          31.50     Matches:      16
Percent Similarity: 48.00% Conservative: 8
Best Local Similarity: 32.00% Mismatches: 17
Query Match:      5.02%  Indels:      9
DB:               1      Gaps:       3

US-09-471-349-1 (1-1245)
; TYPE: DNA
; ORGANISM: Streptococcus equisimilis
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(1242)
US-09-471-349-1

Alignment Scores:
Pred. No.:      19.9      Length:      1245
Score:          31.50     Matches:      16
Percent Similarity: 48.00% Conservative: 8
Best Local Similarity: 32.00% Mismatches: 17
Query Match:      5.02%  Indels:      9
DB:               1      Gaps:       3

US-09-940-235-4 (1-259) x US-09-471-349-1 (1-1245)

Qy 203 GlnAspThrArg-----ThrSerTyrArgIleGlyAspThrTrpSerLysLysAspAsn 220
Db 538 AAAGATACTAAGCTATTGAAACACACTAGCTATCGGTGACACCATCATCTCAAGAA--- 594

Qy 221 ArgGlyAsnLeuLeu-----GlnCysIleCysThrGlyAsnGlyArgGlyGluTrp 237
Db 595 -----TTACTAGCTCAAGCACAAAGCATTTTAAACAAACAAACCCAGCGCTATACG 645

Qy 238 LysCysGluArgHisThrSerValGlnThr 247
Db 646 ATTATGAACGTGACTCTCTCAATCGTCACT 675

RESULT 39
US-10-631-558-1
; Sequence 1, Application US/10631558
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chaiti
; APPLICANT: Rajagopal, Kammara
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; TITLE OF INVENTION: PROTEIN

```

FILE REFERENCE: 07064-009002  
CURRENT APPLICATION NUMBER: US/10/631,558  
CURRENT FILING DATE: 2003-07-31  
PRIOR APPLICATION NUMBER: US/09/940,235  
PRIOR FILING DATE: 2002-04-09  
PRIOR APPLICATION NUMBER: 09/471,349  
PRIOR FILING DATE: 1999-12-23  
PRIOR APPLICATION NUMBER: IN 3825/DEL/98  
PRIOR FILING DATE: 1998-12-24  
NUMBER OF SEQ ID NOS: 28  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 1  
LENGTH: 1245  
TYPE: DNA  
ORGANISM: Streptococcus equisimilis  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (1)...(1242)  
US-10-631-558-1

Alignment Scores:  
Pred. No.: 19.9 Length: 1245  
Score: 31.50 Matches: 16  
Percent Similarity: 48.00% Conservative: 8  
Best Local Similarity: 32.00% Mismatches: 17  
Query Match: 5.02% Indels: 9  
Gaps: 3

US-09-940-235-4 (1-259) x US-10-631-558-1 (1-1245)

Qy 203 GlnAspThrArg-----ThrSerTyrArgIleGlyAspThrTrpSerLysLysAspAsn 220  
Db 538 AAAGATACCTAGCTATTGAAACACCTAGCTATCGGTGACACCATCATCTCAAGAA--- 594  
Qy 221 ArgGlyAsnLeu-----GlnCysIleCysThrGlyAsnGlyArgGlyGluTrp 237  
Db 595 -----TTACTAGCTCAAGCACAAAGCAATTTTAAACAAACCAACCACCCAGGCTATACG 645  
Qy 238 LysCysGluArgHisThrSerValGlnThr 247  
Db 646 ATTTATGAACGTGACTCTCAATCGTCACT 675

## RESULT 40

US-09-569-920-2  
Sequence 2, Application US/09569920  
GENERAL INFORMATION:  
APPLICANT: Reddy, Vemuri B.  
APPLICANT: Lerner, Ethan  
TITLE OF INVENTION: VASODILATOR-THROMBOLYTIC FUSION PROTEIN  
TITLE OF INVENTION: AND CONJUGATES  
FILE REFERENCE: 10284-026001  
CURRENT APPLICATION NUMBER: US/09/569,920  
CURRENT FILING DATE: 2000-05-11  
NUMBER OF SEQ ID NOS: 9  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 2  
LENGTH: 1254  
TYPE: DNA  
ORGANISM: Streptococcus pyogenes  
US-09-569-920-2

Alignment Scores:  
Pred. No.: 19.9 Length: 1254  
Score: 31.50 Matches: 16  
Percent Similarity: 48.00% Conservative: 8  
Best Local Similarity: 32.00% Mismatches: 17  
Query Match: 5.02% Indels: 9  
Gaps: 3

US-09-940-235-4 (1-259) x US-09-569-920-2 (1-1254)

Qy 203 GlnAspThrArg-----ThrSerTyrArgIleGlyAspThrTrpSerLysLysAspAsn 220  
Db 646 ATTTATGAACGTGACTCTCAATCGTCACT 675

Db 544 AAAGATACCTAGCTATTGAAACACCTAGCTATCGGTGACACCATCATCTCAAGAA--- 600  
Qy 221 ArgGlyAsnLeu-----GlnCysIleCysThrGlyAsnGlyArgGlyGluTrp 237  
Db 601 -----TTACTAGCTCAAGCACAAAGCAATTTTAAACAAACCAACCACCCAGGCTATACG 651  
Qy 238 LysCysGluArgHisThrSerValGlnThr 247  
Db 652 ATTTATGAACGTGACTCTCAATCGTCACT 681

## RESULT 41

US-09-471-349-6  
Sequence 6, Application US/09471349  
GENERAL INFORMATION:  
APPLICANT: Sahni, Girish  
APPLICANT: Kumar, Rajesh  
APPLICANT: Roy, Chaiti  
APPLICANT: Rajagopal, Kamara  
APPLICANT: Nihalani, Deepak  
APPLICANT: Sundaram, Vasudha  
APPLICANT: Yadav, Mahavir  
TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE PROTEINS POSSESSING ALTERED  
TITLE OF INVENTION: PLASMINOGEN ACTIVATION CHARACTERISTICS AND A PROCESS FOR THE  
TITLE OF INVENTION: PREPARATION OF SAID PROTEINS  
FILE REFERENCE: 07064/009001  
CURRENT APPLICATION NUMBER: US/09/471,349  
CURRENT FILING DATE: 1999-12-23  
PRIOR APPLICATION NUMBER: IN 3825/DEL/98  
PRIOR FILING DATE: 1998-12-24  
NUMBER OF SEQ ID NOS: 24  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 6  
LENGTH: 1327  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Synthetically generated primer  
US-09-471-349-6

Alignment Scores:  
Pred. No.: 19.9 Length: 1327  
Score: 31.50 Matches: 16  
Percent Similarity: 48.00% Conservative: 8  
Best Local Similarity: 32.00% Mismatches: 17  
Query Match: 5.02% Indels: 9  
Gaps: 3

US-09-940-235-4 (1-259) x US-09-471-349-6 (1-1327)

Qy 203 GlnAspThrArg-----ThrSerTyrArgIleGlyAspThrTrpSerLysLysAspAsn 220  
Db 620 AAAGATACCTAGCTATTGAAACACCTAGCTATCGGTGACACCATCATCTCAAGAA--- 676  
Qy 221 ArgGlyAsnLeu-----GlnCysIleCysThrGlyAsnGlyArgGlyGluTrp 237  
Db 677 -----TTACTAGCTCAAGCACAAAGCAATTTTAAACAAACCAACCACCCAGGCTATACG 727  
Qy 238 LysCysGluArgHisThrSerValGlnThr 247  
Db 728 ATTTATGAACGTGACTCTCAATCGTCACT 757

## RESULT 42

US-09-940-235-6  
Sequence 6, Application US/09940235  
GENERAL INFORMATION:  
APPLICANT: Kumar, Rajesh  
APPLICANT: Sahni, Girish  
APPLICANT: Roy, Chaiti  
APPLICANT: Rajagopal, Kamara  
APPLICANT: Nihalani, Deepak  
APPLICANT: Sundaram, Vasudha  
APPLICANT: Yadav, Mahavir  
TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE



```

Pred. No.: 19.9 Length: 1327
Score: 31.50 Matches: 16
Percent Similarity: 48.00% Conservative: 8
Best Local Similarity: 32.00% Mismatches: 17
Query Match: 5.02% Indels: 9
DB: 1 Gaps: 3

US-09-940-235-4 (1-259) x US-10-631-558-6 (1-1327)

Qy 203 GlnAspThrArg-----ThrSerTyArglleGlyAspThrTrpSerLysLysAspAsn 220
Db 620 AAAGTACTAAGCTATTGAAACACATAGCTATCGGTGACACCATCACATCTCAAGAA--- 676
Qy 221 ArgGlyAsnLeu-----GlnCyslleCysThrGlyAsnGlyArgGlyGluTrp 237
Db 677 -----TTACTAGTCAAGCACAAAGCATTTTAAACAAAAACCACCCAGGCTATACG 727

Qy 238 LysCysGluArgHisThrSerValGlnThr 247
Db 728 ATTTATGAACGTGACTCCTCAATCGTCACT 757

RESULT 44
US-09-471-349-5
; Sequence 5, Application US/09471349
; GENERAL INFORMATION:
; APPLICANT: Sahni, Girish
; APPLICANT: Kumar, Rajesh
; APPLICANT: Roy, Chaiti
; APPLICANT: Rajagopal, Kammara
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE PROTEINS POSSESSING
; TITLE OF INVENTION: PLASMINOGEN ACTIVATION CHARACTERISTICS AND A PROCESS
; FILE REFERENCE: 07064/009001
; CURRENT APPLICATION NUMBER: US/09/471,349
; CURRENT FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 1377
; TYPE: DNA
; ORGANISM: Streptococcus equisimilis
US-09-471-349-5

Alignment Scores:
Pred. No.: 19.9 Length: 1377
Score: 31.50 Matches: 16
Percent Similarity: 48.00% Conservative: 8
Best Local Similarity: 32.00% Mismatches: 17
Query Match: 5.02% Indels: 9
DB: 1 Gaps: 3

US-09-940-235-4 (1-259) x US-09-471-349-5 (1-1377)

Qy 203 GlnAspThrArg-----ThrSerTyArglleGlyAspThrTrpSerLysLysAspAsn 220
Db 670 AAAGTACTAAGCTATTGAAACACATAGCTATCGGTGACACCATCACATCTCAAGAA--- 726
Qy 221 ArgGlyAsnLeu-----GlnCyslleCysThrGlyAsnGlyArgGlyGluTrp 237
Db 727 -----TTACTAGTCAAGCACAAAGCATTTTAAACAAAAACCACCCAGGCTATACG 777

Qy 238 LysCysGluArgHisThrSerValGlnThr 247
Db 778 ATTTATGAACGTGACTCCTCAATCGTCACT 807

RESULT 45
US-09-940-235-5
; Sequence 5, Application US/09940235

```

```

; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammar
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; TITLE OF INVENTION: PROTEIN
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/09/940,235
; CURRENT FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 1377
; TYPE: DNA
; ORGANISM: Streptococcus equisimilis
US-09-940-235-5

```

```

Alignment Scores:
Pred. No.:      19.9      Length:      1377
Score:          31.50     Matches:      16
Percent Similarity: 48.00%  Conservative: 8
Best Local Similarity: 32.00%  Mismatches: 17
Query Match:      5.02%     Indels:      9
DB:               1        Gaps:        3

```

```

US-09-940-235-4 (1-259) x US-09-940-235-5 (1-1377)
QY 203 GlnAspThrArg-----ThrSerTyrArgIleGlyAspThrTTPSerLysLysAspAsn 220
Db 670 AAAGATACCTAGCTATTGAACACTAGCTATCGGTGACACCATCACATCTCAAGAA--- 726
QY 221 ArgGlyAsnLeuLeu-----GlnCysIleCysThrGlyAsnGlyArgGlyGluTrp 237
Db 727 -----TTACTAGCTCAAGCAACAAGCAATTTAAACAAAAACCACCAGGCTATACG 777
QY 238 LysCysGluArgHisThrSerValGlnThr 247
Db 778 ATTTATGAACGTGACTCTCAATCGTCACT 807

```

```

Search completed: May 11, 2005, 08:41:09
Job time : 7 secs

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```

RESULT 1
US-10-360-101-264
; Sequence 264, Application US/10360101
; GENERAL INFORMATION:
; APPLICANT: Moll, Gert N.
; APPLICANT: Leenhouts, Cornelis J.
; TITLE OF INVENTION: Export and modification of (poly)peptide in the lantibiotic way
; FILE REFERENCE: 2183-5673
; CURRENT APPLICATION NUMBER: US/10/360,101
; CURRENT FILING DATE: 2003-02-07
; PRIOR APPLICATION NUMBER: EP 02077060.8
; PRIOR FILING DATE: 2002-05-24
; NUMBER OF SEQ ID NOS: 309
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 264
; LENGTH: 413
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:

```





GenCore version 5.1.1.6  
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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: May 11, 2005, 08:38:06 ; Search time 3 Seconds  
(without alignments)  
3.055 Million cell updates/sec

Title: US-09-940-235-4  
Perfect score: 600  
Sequence: 1 QAQMVPQSPVAVSQSRPG.....SMWDCICAGRGRICTI 106

Scoring table:  
BLOSUM62  
Xgapop 10.0 , Xgapext 0.5  
Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 23 seqs, 43234 residues

Total number of hits satisfying chosen parameters: 46

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:  
-MODEL=frame\_p2n\_model -DEV=soft -O=Pending Patents AA Main:US-09-940-235-4  
-DB=nrmp2.pep -SUFFIX=ptc -OUT=align4\_1\_106\_rnmp -MINMATCH=0.1 -LOOPCL=0  
-LOOPEXT=0 -UNITS=bits -START=1 -END=106 -MATRIX=blosum62 -TRANS=human40.cdi  
-LIST=45 -DOALIGN=200 -THR SCORE=ptc -THR MAX=100 -THR MIN=0 -ALIGN=45  
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEADSIZE=500 -MINLEN=0 -MAXLEN=2000000000  
-NCPU=6 -NO\_XLPXY -NEG SCORES=0 -LONGLOG -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5  
-FCAPOP=6 -FCAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : nrmp2.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	600	100.0	1661	1	US-09-471-349-10 Sequence 10, Appl
2	600	100.0	1661	1	US-09-940-235-10 Sequence 10, Appl
3	600	100.0	1661	1	US-10-631-558-10 Sequence 10, Appl
4	160	26.7	1541	1	US-09-471-349-9 Sequence 9, Appl
5	160	26.7	1541	1	US-09-940-235-9 Sequence 9, Appl
6	160	26.7	1541	1	US-10-631-558-9 Sequence 9, Appl
7	160	26.7	2096	1	US-09-471-349-12 Sequence 12, Appl
8	160	26.7	2096	1	US-09-940-235-12 Sequence 12, Appl
9	160	26.7	2096	1	US-10-631-558-12 Sequence 12, Appl
10	109.5	18.2	1782	1	US-09-471-349-11 Sequence 11, Appl
11	109.5	18.2	1782	1	US-09-940-235-11 Sequence 11, Appl
12	109.5	18.2	1782	1	US-10-631-558-11 Sequence 11, Appl
13	40	6.7	8893	1	US-09-569-920-3 Sequence 3, Appl
14	37.5	6.2	1782	1	US-09-471-349-11 Sequence 11, Appl
15	37.5	6.2	1782	1	US-09-940-235-11 Sequence 11, Appl
16	37.5	6.2	1782	1	US-10-631-558-11 Sequence 11, Appl
17	37.5	6.2	2096	1	US-09-471-349-12 Sequence 12, Appl
18	37.5	6.2	2096	1	US-09-940-235-12 Sequence 12, Appl
19	37.5	6.2	2096	1	US-10-631-558-12 Sequence 12, Appl
20	36	6.0	8893	1	US-09-569-920-3 Sequence 3, Appl
21	34	5.7	1541	1	US-09-471-349-9 Sequence 9, Appl

ALIGNMENTS

RESULT 1

US-09-471-349-10  
; Sequence 10, Application US/09471349

; GENERAL INFORMATION:

; APPLICANT: Sahni, Girish

; APPLICANT: Kumar, Rajesh

; APPLICANT: Roy, Chaithi

; APPLICANT: Rajagopal, Kammara

; APPLICANT: Nihalani, Deepak

; APPLICANT: Sundaram, Vasudha

; APPLICANT: Yadav, Mahavir

; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE PROTEINS POSSESSING ALTERED

; TITLE OF INVENTION: PLASMINOGEN ACTIVATION CHARACTERISTICS AND A PROCESS FOR THE

; FILE REFERENCE: 07064/009001

; CURRENT APPLICATION NUMBER: US/09/471,349

; CURRENT FILING DATE: 1999-12-23

; PRIOR APPLICATION NUMBER: IN 3825/DEL/98

; PRIOR FILING DATE: 1998-12-24

; NUMBER OF SEQ ID NOS: 24

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 10

; LENGTH: 1661

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Synthetically generated primer

US-09-471-349-10

Alignment Scores:

Pred. No.:

Score:

Percent Similarity:

Best Local Similarity:

Query Match:

DB:

Length: 1661  
Matches: 106  
Conservative: 0  
Mismatch: 0  
Indels: 0  
Gaps: 0

US-09-940-235-4 (1-259) x US-09-471-349-10 (1-1661)

Qy 1 GlnAAGlnGlnMetValGlnProGlnSerProValAlaValSerGlnSerLysProGly 20

Db 1341 CAGGCGCAGCAATGTTTCAGCCCGTCCCGTGGCTGCTCAGTCAACACAGCCCGT 1400

Qy 21 CysTyrAspAsnGlyLysHisTyrGlnIleAsnGlnGlnTrpGlnArgThrTyrLeuGly 40

```

Db      1401 TGTATGACAAATGGGAAACACTATCAGATAAATCAACAGTGGGAGCGGACCTACCTAGGT 1460
Qy      41  AsnValLeuValCysThrCysTyrGlyGlySerArgGlyPheAsnCysGluSerLysPro 60
      |||
Db      1461 AATGTTGGTTTGTTACTTGTATGAGGAGCGGAGGTTTAACTGCGAAAGTAAACCT 1520
Qy      61  GluAlaGluThrCysPheAspLysTyrThrGlyAsnThrTyrArgValGlyAspThr 80
      |||
Db      1521 GAAGCTGAAGAGACTTGTCTTTCACAAAGTACACTTGGGAACACTTACCGAGTGGGTGACACT 1580
Qy      81  TyrGluArgProLysAspSerMetIleTyrAspCysThrCysIleGlyAlaGlyArgGly 100
      |||
Db      1581 TATGAGCGCTCTTAAAGACTCCATGATCTGGGACTGTGTACCTGTCATCGGGGCTGGGCGAGGG 1640
Qy      101 ArgIleSerCysThrIle 106
      |||
Db      1641 AGAATAAGCTGTACCAC 1658

RESULT 2
US-09-940-235-10
; Sequence 10, Application US/09940235
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammar
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; TITLE OF INVENTION: PROTEIN
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/09/940,235
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 1661
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hybrid cassette
US-09-940-235-10

Alignment Scores:
Pred. No.:      8.46e-07      Length:      1661
Score:          600.00      Matches:      106
Percent Similarity: 100.00%      Conservative: 0
Best Local Similarity: 100.00%      Mismatches: 0
Query Match:    100.00%      Indels:      0
DB:             1          Gaps:      0

US-09-940-235-4 (1-259) x US-09-940-235-10 (1-1661)
Qy      1  GlnAlaGlnMetValGlnProGlnSerProValAlaValSerGlnSerLysProGly 20
      |||
Db      1341 CAGGCGCAGCAATGGTTTCCAGCCCGTCCCGTGGCTGTCTCAGTCAAGAGCGGCGGT 1400
Qy      21  CysTyrAspAsnGlyLysHisTyrGlnIleAsnGlnGlnTrpGluArgThrTyrLeuGly 40
      |||
Db      1401 TGTATGACAAATGGGAAACACTATCAGATAAATCAACAGTGGGAGCGGACCTACCTAGGT 1460
Qy      41  AsnValLeuValCysThrCysTyrGlyGlySerArgGlyPheAsnCysGluSerLysPro 60
      |||
Db      1461 AATGTTGGTTTGTTACTTGTATGAGGAGCGGAGGTTTAACTGCGAAAGTAAACCT 1520
Qy      61  GluAlaGluThrCysPheAspLysTyrThrGlyAsnThrTyrArgValGlyAspThr 80
      |||
Db      1521 GAAGCTGAAGAGACTTGTCTTTCACAAAGTACACTTGGGAACACTTACCGAGTGGGTGACACT 1580
Qy      81  TyrGluArgProLysAspSerMetIleTyrAspCysThrCysIleGlyAlaGlyArgGly 100
      |||

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Db      1521 GAAGCTGAAGAGACTTGTCTTTCACAAAGTACACTTGGGAACACTTACCGAGTGGGTGACACT 1580
Qy      81  TyrGluArgProLysAspSerMetIleTyrAspCysThrCysIleGlyAlaGlyArgGly 100
      |||
Db      1581 TATGAGCGCTCTTAAAGACTCCATGATCTGGGACTGTGTACCTGTCATCGGGGCTGGGCGAGGG 1640
Qy      101 ArgIleSerCysThrIle 106
      |||
Db      1641 AGAATAAGCTGTACCAC 1658

RESULT 3
US-10-631-558-10
; Sequence 10, Application US/10631558
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammar
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; TITLE OF INVENTION: PROTEIN
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/10/631,558
; CURRENT FILING DATE: 2003-07-31
; PRIOR APPLICATION NUMBER: US/09/940,235
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 1661
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hybrid cassette
US-10-631-558-10

Alignment Scores:
Pred. No.:      8.46e-07      Length:      1661
Score:          600.00      Matches:      106
Percent Similarity: 100.00%      Conservative: 0
Best Local Similarity: 100.00%      Mismatches: 0
Query Match:    100.00%      Indels:      0
DB:             1          Gaps:      0

US-09-940-235-4 (1-259) x US-10-631-558-10 (1-1661)
Qy      1  GlnAlaGlnMetValGlnProGlnSerProValAlaValSerGlnSerLysProGly 20
      |||
Db      1341 CAGGCGCAGCAATGGTTTCCAGCCCGTCCCGTGGCTGTCTCAGTCAAGAGCGGCGGT 1400
Qy      21  CysTyrAspAsnGlyLysHisTyrGlnIleAsnGlnGlnTrpGluArgThrTyrLeuGly 40
      |||
Db      1401 TGTATGACAAATGGGAAACACTATCAGATAAATCAACAGTGGGAGCGGACCTACCTAGGT 1460
Qy      41  AsnValLeuValCysThrCysTyrGlyGlySerArgGlyPheAsnCysGluSerLysPro 60
      |||
Db      1461 AATGTTGGTTTGTTACTTGTATGAGGAGCGGAGGTTTAACTGCGAAAGTAAACCT 1520
Qy      61  GluAlaGluThrCysPheAspLysTyrThrGlyAsnThrTyrArgValGlyAspThr 80
      |||
Db      1521 GAAGCTGAAGAGACTTGTCTTTCACAAAGTACACTTGGGAACACTTACCGAGTGGGTGACACT 1580
Qy      81  TyrGluArgProLysAspSerMetIleTyrAspCysThrCysIleGlyAlaGlyArgGly 100
      |||

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; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; TITLE OF INVENTION: PROTEIN
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/10/631,558
; CURRENT FILING DATE: 2003-07-31
; PRIOR APPLICATION NUMBER: US/09/940,235
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; SOFTWARE: FastSeq for Windows Version 4.0
; NUMBER OF SEQ ID NOS: 28
; SEQ ID NO 9
; TYPE: DNA
; LENGTH: 1541
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hybrid cassette
US-10-631-558-9

Alignment Scores:
Pred. No.: 0.496 Length: 1541
Score: 160.00 Matches: 41
Percent Similarity: 52.73% Conservative: 17
Best Local Similarity: 37.27% Mismatches: 32
Query Match: 26.67% Indels: 20
DB: 1 Gaps: 8

US-09-940-235-4 (1-259) x US-10-631-558-9 (1-1541)
QY 1 GlnAlaGlnMetValGlnProGlnSerProValAlaValSerGlnSerLysProGly 20
Db 1191 CAGGCGCAACAGATTGTA-----CCATAGCTGAGAAG----- 1223
QY 21 CysTyrAspAsn-----GlyLysHisTyrGlnIleAsnGlnGlnTrpGluArgThrTyr 38
Db 1224 TGTTTTGATCATGCTGCTGGGACTTCCTATGTGTCGGAGAAACGTCGGAGAACCCCTAC 1283
QY 39 LeuGlyAsnValLeuVal---CysThrCysTyrGly---GlySerArgGlyPheAsnCys 56
Db 1284 CAAGGCTGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1343
QY 57 GluSerLysProGluAlaGluThrCysPheAspLysTyrThrClyAsnThrTyrArg 76
Db 1344 ACTTCTAGA-----AATAGATGCAACGATCAGGACACAGGACATCCTATAGA 1391
QY 77 ValGlyAspThrTyrGluArgProLysAspSerMet-----IleTrpAspCysThrCys 94
Db 1392 ATTGGAGACACTGGAGCAAG---AAGGATATCGAGGAAACCTGCTCCAGTGCATCTGC 1448
QY 95 IleGlyAlaGlyArgGlyArgIleSerCys 104
Db 1449 ACAGGCAACGCGGAGGAGAGTGAAGTGT 1478

RESULT 7
US-09-471-349-12
; Sequence 12, Application US/09471349
; GENERAL INFORMATION:
; APPLICANT: Sahni, Girish
; APPLICANT: Kumar, Rajesh
; APPLICANT: Roy, Chaiti
; APPLICANT: Rajagopal, Kammarra
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE PROTEINS POSSESSING ALTERED
; TITLE OF INVENTION: PLASMINOGEN ACTIVATION CHARACTERISTICS AND A PROCESS FOR THE
; FILE REFERENCE: 07064/009001
; CURRENT APPLICATION NUMBER: US/09/471,349

; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; TITLE OF INVENTION: PROTEIN
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/10/631,558
; CURRENT FILING DATE: 2003-07-31
; PRIOR APPLICATION NUMBER: US/09/940,235
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; SOFTWARE: FastSeq for Windows Version 4.0
; NUMBER OF SEQ ID NOS: 28
; SEQ ID NO 12
; TYPE: DNA
; LENGTH: 2096
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetically generated primer
US-09-471-349-12

Alignment Scores:
Pred. No.: 0.513 Length: 2096
Score: 160.00 Matches: 41
Percent Similarity: 52.73% Conservative: 17
Best Local Similarity: 37.27% Mismatches: 32
Query Match: 26.67% Indels: 20
DB: 1 Gaps: 8

US-09-940-235-4 (1-259) x US-09-471-349-12 (1-2096)
QY 1 GlnAlaGlnMetValGlnProGlnSerProValAlaValSerGlnSerLysProGly 20
Db 1746 CAGGCGCAACAGATTGTA-----CCATAGCTGAGAAG----- 1778
QY 21 CysTyrAspAsn-----GlyLysHisTyrGlnIleAsnGlnGlnTrpGluArgThrTyr 38
Db 1779 TGTTTTGATCATGCTGCTGGGACTTCCTATGTGTCGGAGAAACGTCGGAGAACCCCTAC 1838
QY 39 LeuGlyAsnValLeuVal---CysThrCysTyrGly---GlySerArgGlyPheAsnCys 56
Db 1839 CAAGGCTGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1898
QY 57 GluSerLysProGluAlaGluThrCysPheAspLysTyrThrGlyAsnThrTyrArg 76
Db 1899 ACTTCTAGA-----AATAGATGCAACGATCAGGACACAGGACATCCTATAGA 1946
QY 77 ValGlyAspThrTyrGluArgProLysAspSerMet-----IleTrpAspCysThrCys 94
Db 1947 ATTGGAGACACTGGAGCAAG---AAGGATATCGAGGAAACCTGCTCCAGTGCATCTGC 2003
QY 95 IleGlyAlaGlyArgGlyArgIleSerCys 104
Db 2004 ACAGGCAACGCGGAGGAGAGTGAAGTGT 2033

RESULT 8
US-09-940-235-12
; Sequence 12, Application US/09940235
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammarra
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/09/940,235
; CURRENT FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 2096

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QY 5 MetValGlnProGlnSerProValAlaValSerGlnSerLysProGlyCysTyrAspAsn 24
Db: 230 ATGGTGAAGCAACACAGATTGTACCATAGCTGAGAAG-----TGTTCATCAT 280
QY 25 -----GlyLysHisTyrGlnIleAsnGlnInTrpGluArgThrTyrLeuGlyAsnVal 42
Db: 281 GCTGTGGGACTTCCTATGTGTCGGAACCTGGGAGAGGCA-----GCGGACGC- 333
QY 43 LeuValCysThrCysTyrGlySerArgGlyPheAsnCysGluSerLysProGluAla 62
Db: 334 ATCACTTGCACT-----TCT 348
QY 63 GluGluThrCysPheAspLysTyrThrGlyAsnThrTyrArgValGlyAspThrTyrGlu 82
Db: 349 AGAAATAGATGCAACGATCAGACAGGACATCCTATAGAAATGGAGACACCTGGAGC 408
QY 83 ArgProLysAspSerMet-----IleTrpAspCysThrCysIleGlyAlaGlyArgGly 100
Db: 409 AAG--AAGGATAATCGAGAAACCTGTCCAGTGCATCTGCACAGGCAACGCGCCGAGGA 465
QY 101 ArgIleSerCys 104
Db: 466 GAGTGAAGTGT 477

RESULT 11
; Sequence 11, Application US/09940235
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammar
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; TITLE OF INVENTION: PROTEIN
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/09/940,235
; CURRENT FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 1782
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hybrid cassette
US-09-940-235-11
Alignment Scores:
Pred. No.: 2.27 Length: 1782
Score: 109.50 Matches: 30
Percent Similarity: 46.15% Conservative: 31
Best Local Similarity: 28.85% Mismatches: 31
Query Match: 18.25% Indels: 26
DB: 1 Gaps: 6
US-09-940-235-4 (1-259) x US-09-940-235-11 (1-1782)
QY 5 MetValGlnProGlnSerProValAlaValSerGlnSerLysProGlyCysTyrAspAsn 24
Db: 230 ATGGTGAAGCAACACAGATTGTACCATAGCTGAGAAG-----TGTTCATCAT 280
QY 25 -----GlyLysHisTyrGlnIleAsnGlnInTrpGluArgThrTyrLeuGlyAsnVal 42
Db: 281 GCTGTGGGACTTCCTATGTGTCGGAACCTGGGAGAGGCA-----TGTTCATCAT 280
QY 43 LeuValCysThrCysTyrGlySerArgGlyPheAsnCysGluSerLysProGluAla 62
Db: 334 ATCACTTGCACT-----TCT 348

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Db 281 GCTGTGGGACTTCCTATGTGTCGGAACCTGGGAGAGGCA-----GCGGACGC- 333
QY 43 LeuValCysThrCysTyrGlySerArgGlyPheAsnCysGluSerLysProGluAla 62
Db: 334 ATCACTTGCACT-----TCT 348
QY 63 GluGluThrCysPheAspLysTyrThrGlyAsnThrTyrArgValGlyAspThrTyrGlu 82
Db: 349 AGAAATAGATGCAACGATCAGACAGGACATCCTATAGAAATGGAGACACCTGGAGC 408
QY 83 ArgProLysAspSerMet-----IleTrpAspCysThrCysIleGlyAlaGlyArgGly 100
Db: 409 AAG--AAGGATAATCGAGAAACCTGTCCAGTGCATCTGCACAGGCAACGCGCCGAGGA 465
QY 101 ArgIleSerCys 104
Db: 466 GAGTGAAGTGT 477

RESULT 12
; Sequence 11, Application US/10631558
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammar
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; TITLE OF INVENTION: PROTEIN
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/10/631,558
; CURRENT FILING DATE: 2003-07-31
; PRIOR APPLICATION NUMBER: US/09/940,235
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 1782
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hybrid cassette
US-10-631-558-11
Alignment Scores:
Pred. No.: 2.27 Length: 1782
Score: 109.50 Matches: 30
Percent Similarity: 46.15% Conservative: 18
Best Local Similarity: 28.85% Mismatches: 31
Query Match: 18.25% Indels: 26
DB: 1 Gaps: 6
US-09-940-235-4 (1-259) x US-10-631-558-11 (1-1782)
QY 5 MetValGlnProGlnSerProValAlaValSerGlnSerLysProGlyCysTyrAspAsn 24
Db: 230 ATGGTGAAGCAACACAGATTGTACCATAGCTGAGAAG-----TGTTCATCAT 280
QY 25 -----GlyLysHisTyrGlnIleAsnGlnInTrpGluArgThrTyrLeuGlyAsnVal 42
Db: 281 GCTGTGGGACTTCCTATGTGTCGGAACCTGGGAGAGGCA-----GCGGACGC- 333
QY 43 LeuValCysThrCysTyrGlySerArgGlyPheAsnCysGluSerLysProGluAla 62
Db: 334 ATCACTTGCACT-----TCT 348

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QY 63 GluGluThrCysPheAspLysTyrThrGlyAsnThrTyrArgValGlyAspThrTyrGlu 82  
 Db 349 AGAATAGATGCAACATCAGACACAAGGACATCTATAGAAATGGAGACACCTGGAGC 408  
 QY 83 ArgProLysAspSerMet-----IleTrpAspCysThrCysIleGlyAlaGlyArgGly 100  
 Db 409 AAG-----AAGGATAATCGAGGAACCTGTCCAGTCGATCGACAGGCAACGGCCGAGGA 465  
 QY 101 ArgIleSerCys 104  
 Db 466 GAGTGAAGTGT 477

## RESULT 13

US-09-569-920-3  
 ; Sequence 3, Application US/09569920  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Reddy, Vemuri B.  
 ; APPLICANT: Lerner, Ethan  
 ; TITLE OF INVENTION: VASODILATOR-THROMBOLYTIC FUSION PROTEIN  
 ; TITLE OF INVENTION: AND CONJUGATES  
 ; FILE REFERENCE: 10284-026001  
 ; CURRENT APPLICATION NUMBER: US/09/569,920  
 ; CURRENT FILING DATE: 2000-05-11  
 ; NUMBER OF SEQ ID NOS: 9  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 3  
 ; LENGTH: 8893  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: synthetic construct  
 US-09-569-920-3

Alignment Scores:  
 Pred. No.: 17.7 Length: 8893  
 Score: 40.00 Matches: 6  
 Percent Similarity: 66.67% Conservative: 2  
 Best Local Similarity: 50.00% Mismatches: 4  
 Query Match: 6.67% Indels: 0  
 DB: 1 Gaps: 0

US-09-940-235-4 (1-259) x US-09-569-920-3 (1-8893)

QY 59 LysProGluAlaGluThrCysPheAspLysTyr 70  
 Db 1062 AAGCCCAAAACAGGAAGATTGTATAAGCAAATAT 1097

## RESULT 14

US-09-471-349-11/c  
 ; Sequence 11, Application US/09471349  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sahni, Girish  
 ; APPLICANT: Kumar, Rajesh  
 ; APPLICANT: Roy, Chaiti  
 ; APPLICANT: Rajagopal, Kammara  
 ; APPLICANT: Nihalani, Deepak  
 ; APPLICANT: Sundaram, Vasudha  
 ; APPLICANT: Yadav, Mahavir  
 ; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE PROTEINS POSSESSING ALTERED  
 ; TITLE OF INVENTION: PLASMINOGEN ACTIVATION CHARACTERISTICS AND A PROCESS FOR THE  
 ; TITLE OF INVENTION: PREPARATION OF SAID PROTEINS  
 ; FILE REFERENCE: 07064/009001  
 ; CURRENT APPLICATION NUMBER: US/09/471,349  
 ; CURRENT FILING DATE: 1999-12-23  
 ; PRIOR APPLICATION NUMBER: IN 3825/DEL/98  
 ; PRIOR FILING DATE: 1998-12-24  
 ; NUMBER OF SEQ ID NOS: 24  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 11  
 ; LENGTH: 1782  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence

FEATURE:  
 ; OTHER INFORMATION: Synthetically generated primer  
 US-09-471-349-11

Alignment Scores:  
 Pred. No.: 16.3 Length: 1782  
 Score: 37.50 Matches: 20  
 Percent Similarity: 36.76% Conservative: 5  
 Best Local Similarity: 29.41% Mismatches: 24  
 Query Match: 6.25% Indels: 19  
 DB: 1 Gaps: 5

US-09-940-235-4 (1-259) x US-09-471-349-11 (1-1782)

QY 1 GlnAlaGlnMetValGlnPro-----GlnSerProValAlaVal 14  
 Db 613 CAGTACCAGCAACGCTAACCAACCAATGGCTGTTGTGACAGATGGACGGCTCAGCAGCC 554  
 QY 15 SerGlnSerLysProGlyCysTyrAspAsnGlyLysHisTyrGlnIleAsnGlnTrp 34  
 Db 553 ACTCAGGTCCAGCAA-----TACGAACATCGGTGAAGGGCCAGATCCCGCTCGATGTGG 500  
 QY 35 Glu-----ArgThrTyrLeuGlyAsnValLeuValCysThr 46  
 Db 499 TCTGCACAGAGTGTGCCTCTCACACTTCACCTCTCTCGGCGGTCGCTG---TGCAGA 443  
 QY 47 CysTyrGlyGlySerArgGlyPhe 54  
 Db 442 TGCACCTGGAGCA-----GGTTTC 425

## RESULT 15

US-09-940-235-11/c  
 ; Sequence 11, Application US/09940235  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Kumar, Rajesh  
 ; APPLICANT: Sahni, Girish  
 ; APPLICANT: Roy, Chaiti  
 ; APPLICANT: Rajagopal, Kammara  
 ; APPLICANT: Nihalani, Deepak  
 ; APPLICANT: Sundaram, Vasudha  
 ; APPLICANT: Yadav, Mahavir  
 ; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE  
 ; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION  
 ; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID  
 ; TITLE OF INVENTION: PROTEIN  
 ; FILE REFERENCE: 07064-009002  
 ; CURRENT APPLICATION NUMBER: US/09/940,235  
 ; CURRENT FILING DATE: 2002-04-09  
 ; PRIOR APPLICATION NUMBER: 09/471,349  
 ; PRIOR FILING DATE: 1999-12-23  
 ; PRIOR APPLICATION NUMBER: IN 3825/DEL/98  
 ; PRIOR FILING DATE: 1998-12-24  
 ; NUMBER OF SEQ ID NOS: 28  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 11  
 ; LENGTH: 1782  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Hybrid cassette  
 US-09-940-235-11

Alignment Scores:  
 Pred. No.: 16.3 Length: 1782  
 Score: 37.50 Matches: 20  
 Percent Similarity: 36.76% Conservative: 5  
 Best Local Similarity: 29.41% Mismatches: 24  
 Query Match: 6.25% Indels: 19  
 DB: 1 Gaps: 5

US-09-940-235-4 (1-259) x US-09-940-235-11 (1-1782)

QY 1 GlnAlaGlnMetValGlnPro-----GlnSerProValAlaVal 14



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; OTHER INFORMATION: Hybrid cassette
US-10-631-558-12

Alignment Scores:
Pred. No.: 16 6 Length: 2096
Score: 37.50 Matches: 20
Percent Similarity: 36.76% Conservative: 5
Best Local Similarity: 29.41% Mismatches: 24
Query Match: 6.25% Indels: 19
DB: 1 Gaps: 5

US-09-940-235-4 (1-259) x US-10-631-558-12 (1-2096)
Qy 1 GlnAlaGlnMetValGlnPro-----GlnSerProValAlaVal 14
Db 663 CAGTACCAGCAACGCCTAACAAACAAATGGCTGTGTGGACAGATGGACGGCTCTAGCAGCC 604
Qy 15 SerGlnSerLysProGlyCysTyAspAsnGlyLysHisTyrglnIleAsnGlnGlnTrp 34
Db 603 ACTCAGGTCACGCAA-----TAGCAACATCGGTGAAGGGGCCAGATCCCGCTCGATGTGG 550
Qy 35 Glu-----ArgThrTyrluGlyAsnValLeuValCysThr 46
Db 549 TCTGCACAGAGGTGGCTCTCACACTTCACCTCTCTCTCGGCCGTGCCCTG---TGCAGA 493
Qy 47 CysTyrglyGlySerArgGlyPhe 54
Db 492 TGCACCTGGAGCA-----GGTTTC 475

RESULT 20
US-09-569-920-3/c
; Sequence 3, Application US/09569920
; GENERAL INFORMATION:
; APPLICANT: Reddy, Vemuri B.
; APPLICANT: Lerner, Ethan
; TITLE OF INVENTION: VASODILATOR-THROMBOLYTIC FUSION PROTEIN
; FILE REFERENCE: 10284-026001
; CURRENT APPLICATION NUMBER: US/09/569,920
; CURRENT FILING DATE: 2000-05-11
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 8893
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic construct
US-09-569-920-3

Alignment Scores:
Pred. No.: 19 4 Length: 8893
Score: 36.00 Matches: 8
Percent Similarity: 46.15% Conservative: 4
Best Local Similarity: 30.77% Mismatches: 14
Query Match: 6.00% Indels: 0
DB: 1 Gaps: 0

US-09-940-235-4 (1-259) x US-09-569-920-3 (1-8893)
Qy 16 GlnSerLysProGlyCysTyAspAsnGlyLysHisTyrglnIleAsnGlnGlnTrpGlu 35
Db 3719 CAACGATCATGGCGCTGGCGCAATGCGGCCATTACCGAGTCCGGGCTGCGCGTGG 3660
Qy 36 ArgThrTyrluGlyAsn 41
Db 3659 TGCGGATATCTCGGTAGT 3642

RESULT 21
US-09-471-349-9/c
; Sequence 9, Application US/09471349
; GENERAL INFORMATION:
; APPLICANT: Sahni, Girish

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; APPLICANT: Kumar, Rajesh
; APPLICANT: Roy, Chaiti
; APPLICANT: Rajagopal, Kammar
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE PROTEINS POSSESSING ALTERED
; TITLE OF INVENTION: PLASMINOGEN ACTIVATION CHARACTERISTICS AND A PROCESS FOR THE
; TITLE OF INVENTION: PREPARATION OF SAID PROTEINS
; FILE REFERENCE: 07064/009001
; CURRENT APPLICATION NUMBER: US/09/471,349
; CURRENT FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 1541
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetically generated primer
US-09-471-349-9

Alignment Scores:
Pred. No.: 17.5 Length: 1541
Score: 34.00 Matches: 10
Percent Similarity: 48.39% Conservative: 5
Best Local Similarity: 32.26% Mismatches: 10
Query Match: 5.67% Indels: 6
DB: 1 Gaps: 1

US-09-940-235-4 (1-259) x US-09-940-235-9 (1-1541)
QY 1 GlnAlaGlnMetValGlnProGlnSerProValAlaValSerGlnSerLysProGly 20
Db 1248 AAGTCCACGACGATGATCAAAACACTTCTCAGCTATGGGTACAACTCTGTCGCCTGGC 1189
QY 21 CysTyrAspAsnGlyLysHisTyrGlnIleAsn 31
Db 1188 -----CACCACGACTAAAT 1174

RESULT 23
US-10-631-558-9/c
; Sequence 9, Application US/10631558
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahn, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammar
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; TITLE OF INVENTION: PROTEIN
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/10/631,558
; CURRENT FILING DATE: 2003-07-31
; PRIOR APPLICATION NUMBER: US/09/940,235
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 1541
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hybrid cassette
US-10-631-558-9

Alignment Scores:
Pred. No.: 17.5 Length: 1541
Score: 34.00 Matches: 10
Percent Similarity: 48.39% Conservative: 5
Best Local Similarity: 32.26% Mismatches: 10
Query Match: 5.67% Indels: 6
DB: 1 Gaps: 1

US-09-940-235-4 (1-259) x US-10-631-558-9 (1-1541)
QY 1 GlnAlaGlnMetValGlnProGlnSerProValAlaValSerGlnSerLysProGly 20
Db 1248 AAGTCCACGACGATGATCAAAACACTTCTCAGCTATGGGTACAACTCTGTCGCCTGGC 1189
QY 21 CysTyrAspAsnGlyLysHisTyrGlnIleAsn 31
Db 1188 -----CACCACGACTAAAT 1174

RESULT 24
US-09-471-349-1

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; Sequence 1, Application US/09471349
; GENERAL INFORMATION:
; APPLICANT: Sahni, Girish
; APPLICANT: Kumar, Rajesh
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammar
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE PROTEINS POSSESSING ALTERED
; TITLE OF INVENTION: PLASMINOGEN ACTIVATION CHARACTERISTICS AND A PROCESS FOR THE
; TITLE OF INVENTION: PREPARATION OF SAID PROTEINS
; FILE REFERENCE: 07064/009001
; CURRENT APPLICATION NUMBER: US/09/471,349
; CURRENT FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1245
; TYPE: DNA
; ORGANISM: Streptococcus equisimilis
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(1242)
US-09-471-349-1

Alignment Scores:
Pred. No.: 17.4 Length: 1245
Score: 33.50 Matches: 10
Percent Similarity: 38.24% Conservative: 3
Best Local Similarity: 29.41% Mismatches: 8
Query Match: 5.58% Indels: 13
DB: 1 Gaps: 2

US-09-940-235-4 (1-259) x US-09-471-349-1 (1-1245)
QY 44 ValCysThrCysTyrGlySerArgGlyPheAsnCysGluSerLysProGluAlaGlu 63
Db 1090 ATCATACCGTTTATATGGCAAGCGA-----CCCGAAGGAGAG 1128

; Sequence 1, Application US/09940235
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammar
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/09/940,235
; CURRENT FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1245
; TYPE: DNA
; ORGANISM: Streptococcus equisimilis
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(1242)
US-10-631-558-1

Alignment Scores:
Pred. No.: 17.4 Length: 1245
Score: 33.50 Matches: 10
Percent Similarity: 38.24% Conservative: 3
Best Local Similarity: 29.41% Mismatches: 8
Query Match: 5.58% Indels: 13
DB: 1 Gaps: 2

US-09-940-235-4 (1-259) x US-10-631-558-1 (1-1245)
QY 44 ValCysThrCysTyrGlySerArgGlyPheAsnCysGluSerLysProGluAlaGlu 63
Db 1090 ATCATACCGTTTATATGGCAAGCGA-----CCCGAAGGAGAG 1128

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; ORGANISM: Streptococcus equisimilis
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(1242)
US-09-940-235-1

Alignment Scores:
Pred. No.: 17.4 Length: 1245
Score: 33.50 Matches: 10
Percent Similarity: 38.24% Conservative: 3
Best Local Similarity: 29.41% Mismatches: 8
Query Match: 5.58% Indels: 13
DB: 1 Gaps: 2

US-09-940-235-4 (1-259) x US-09-940-235-1 (1-1245)
QY 44 ValCysThrCysTyrGlySerArgGlyPheAsnCysGluSerLysProGluAlaGlu 63
Db 1090 ATCATACCGTTTATATGGCAAGCGA-----CCCGAAGGAGAG 1128

; Sequence 1, Application US/10631558
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chait
; APPLICANT: Rajagopal, Kammar
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/10/631,558
; CURRENT FILING DATE: 2003-07-31
; PRIOR APPLICATION NUMBER: US/09/940,235
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1245
; TYPE: DNA
; ORGANISM: Streptococcus equisimilis
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(1242)
US-10-631-558-1

Alignment Scores:
Pred. No.: 17.4 Length: 1245
Score: 33.50 Matches: 10
Percent Similarity: 38.24% Conservative: 3
Best Local Similarity: 29.41% Mismatches: 8
Query Match: 5.58% Indels: 13
DB: 1 Gaps: 2

US-09-940-235-4 (1-259) x US-10-631-558-1 (1-1245)
QY 44 ValCysThrCysTyrGlySerArgGlyPheAsnCysGluSerLysProGluAlaGlu 63
Db 1090 ATCATACCGTTTATATGGCAAGCGA-----CCCGAAGGAGAG 1128

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; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; TITLE OF INVENTION: PROTEIN
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/10/631,558
; CURRENT FILING DATE: 2003-07-31
; PRIOR APPLICATION NUMBER: US/09/940,235
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 1327
; TYPE: DNA
; ORGANISM: Streptococcus equisimilis
US-10-631-558-6

Alignment Scores:
Pred. No.: 17.5 Length: 1327
Score: 33.50 Matches: 10
Percent Similarity: 38.24% Conservative: 3
Best Local Similarity: 29.41% Mismatches: 8
Query Match: 5.58% Indels: 13
DB: 2 Gaps: 2

US-09-940-235-4 (1-259) x US-10-631-558-6 (1-1327)
QY 44 ValCysThrCysTyrGlyGlySerArgGlyPheAsnCysGluSerLysProGluAlaGlu 63
DB 1172 ATCATAAACCGTTTATATGGCAAGCGA-----CCCGAAGGAGAG 1210

QY 64 GluThrCysPhe-----AspLysTyrThr 71
DB 1211 AATGCTAGCTATCATTTAGCCTATGATAAAGATCGTTATACC 1252

RESULT 31
US-09-471-349-5
; Sequence 5, Application US/09471349
; GENERAL INFORMATION:
; APPLICANT: Sahni, Girish
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chaiti
; APPLICANT: Rajagopal, Kammar
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PLASMINOGEN ACTIVATION CHARACTERISTICS AND A PROCESS FOR THE
; TITLE OF INVENTION: PREPARATION OF SAID PROTEINS
; FILE REFERENCE: 07064/009001
; CURRENT APPLICATION NUMBER: US/09/471,349
; CURRENT FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 1377
; TYPE: DNA
; ORGANISM: Streptococcus equisimilis
US-09-471-349-5

Alignment Scores:
Pred. No.: 17.5 Length: 1377
Score: 33.50 Matches: 10
Percent Similarity: 38.24% Conservative: 3
Best Local Similarity: 29.41% Mismatches: 8
Query Match: 5.58% Indels: 13

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DB: 1 Gaps: 2

US-09-940-235-4 (1-259) x US-09-471-349-5 (1-1377)
QY 44 ValCysThrCysTyrGlyGlySerArgGlyPheAsnCysGluSerLysProGluAlaGlu 63
DB 1222 ATCATAAACCGTTTATATGGCAAGCGA-----CCCGAAGGAGAG 1260

QY 64 GluThrCysPhe-----AspLysTyrThr 71
DB 1261 AATGCTAGCTATCATTTAGCCTATGATAAAGATCGTTATACC 1302

RESULT 32
US-09-940-235-5
; Sequence 5, Application US/09940235
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chaiti
; APPLICANT: Rajagopal, Kammar
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; TITLE OF INVENTION: PROTEIN
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/09/940,235
; CURRENT FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 1377
; TYPE: DNA
; ORGANISM: Streptococcus equisimilis
US-09-940-235-5

Alignment Scores:
Pred. No.: 17.5 Length: 1377
Score: 33.50 Matches: 10
Percent Similarity: 38.24% Conservative: 3
Best Local Similarity: 29.41% Mismatches: 8
Query Match: 5.58% Indels: 13
DB: 2 Gaps: 2

US-09-940-235-4 (1-259) x US-09-940-235-5 (1-1377)
QY 44 ValCysThrCysTyrGlyGlySerArgGlyPheAsnCysGluSerLysProGluAlaGlu 63
DB 1222 ATCATAAACCGTTTATATGGCAAGCGA-----CCCGAAGGAGAG 1260

QY 64 GluThrCysPhe-----AspLysTyrThr 71
DB 1261 AATGCTAGCTATCATTTAGCCTATGATAAAGATCGTTATACC 1302

RESULT 33
US-10-631-558-5
; Sequence 5, Application US/10631558
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chaiti
; APPLICANT: Rajagopal, Kammar
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION

```



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; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; TITLE OF INVENTION: PROTEIN
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/10/631,558
; CURRENT FILING DATE: 2003-07-31
; PRIOR APPLICATION NUMBER: US/09/940,235
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 1661
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hybrid cassette
US-10-631-558-10

Alignment Scores:
Pred. No.: 18.4 Length: 1661
Score: 32.00 Matches: 9
Percent Similarity: 43.24% Conservative: 7
Best Local Similarity: 24.32% Mismatches: 21
Query Match: 5.33% Indels: 0
DB: 1 Gaps: 0

US-09-940-235-4 (1-259) x US-10-631-558-10 (1-1661)
Qy 15 SerGlnSerProGlyCysTyrAspAsnGlyLysHisTyrGlnIleAsnGlnInTrp 34
Db 1641 TCCCTGCCAGCCCGGATGAGGTACAGTCCAGTCCATGAGTCTTAGACGCTCAT 1582
Qy 35 GluArgThrTyrLeuGlyAsnValLeuValCysThrCysTyrGlyGlySer 51
Db 1591 AAGTGTCACCACTCGGTAAAGTGTCCAGTGTACTGTGCAAGCAAGTCT 1531

RESULT 37
US-09-471-349-5/c
; Sequence 5, Application US/09471349
; GENERAL INFORMATION:
; APPLICANT: Sahni, Girish
; APPLICANT: Kumar, Rajesh
; APPLICANT: Roy, Chaiti
; APPLICANT: Rajagopal, Kammara
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: PREPARATION OF SAID PROTEINS
; FILE REFERENCE: 07064/009001
; CURRENT APPLICATION NUMBER: US/09/471,349
; CURRENT FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 1377
; TYPE: DNA
; ORGANISM: Streptococcus equisimilis
US-09-471-349-5

Alignment Scores:
Pred. No.: 19.4 Length: 1377
Score: 29.00 Matches: 11
Percent Similarity: 37.50% Conservative: 4
Best Local Similarity: 27.50% Mismatches: 15
Query Match: 4.83% Indels: 10
DB: 1 Gaps: 2

US-09-940-235-4 (1-259) x US-09-471-349-5 (1-1377)
Qy 3 GlnGlnMetValGlnProGlnSerProValAlaValSerGlnSerLysProGlyCys--- 21
Db 211 CAACAGTACCAGCAACGCTAACCAACAAT-----GGCTGTGT 173
Qy 22 -----TyrAspAsnGlyLysHisTyrGlnIleAsnGlnInTrpGluArgThrTyrLeu 39
Db 172 TGACAGATGGACGGTCTAGCAGCCACTCAGTCCAGCAATCATGGTATATCTCTCTTA 113

RESULT 39
US-10-631-558-5/c
; Sequence 5, Application US/10631558
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chaiti
; APPLICANT: Rajagopal, Kammara
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION

```

```

DB: 1 Gaps: 2
US-09-940-235-4 (1-259) x US-09-471-349-5 (1-1377)
Qy 3 GlnGlnMetValGlnProGlnSerProValAlaValSerGlnSerLysProGlyCys--- 21
Db 211 CAACAGTACCAGCAACGCTAACCAACAAT-----GGCTGTGT 173
Qy 22 -----TyrAspAsnGlyLysHisTyrGlnIleAsnGlnInTrpGluArgThrTyrLeu 39
Db 172 TGACAGATGGACGGTCTAGCAGCCACTCAGTCCAGCAATCATGGTATATCTCTCTTA 113

RESULT 38
US-09-940-235-5/c
; Sequence 5, Application US/09940235
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chaiti
; APPLICANT: Rajagopal, Kammara
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/09/940,235
; CURRENT FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 1377
; TYPE: DNA
; ORGANISM: Streptococcus equisimilis
US-09-940-235-5

Alignment Scores:
Pred. No.: 19.4 Length: 1377
Score: 29.00 Matches: 11
Percent Similarity: 37.50% Conservative: 4
Best Local Similarity: 27.50% Mismatches: 15
Query Match: 4.83% Indels: 10
DB: 1 Gaps: 2

US-09-940-235-4 (1-259) x US-09-940-235-5 (1-1377)
Qy 3 GlnGlnMetValGlnProGlnSerProValAlaValSerGlnSerLysProGlyCys--- 21
Db 211 CAACAGTACCAGCAACGCTAACCAACAAT-----GGCTGTGT 173
Qy 22 -----TyrAspAsnGlyLysHisTyrGlnIleAsnGlnInTrpGluArgThrTyrLeu 39
Db 172 TGACAGATGGACGGTCTAGCAGCCACTCAGTCCAGCAATCATGGTATATCTCTCTTA 113

RESULT 39
US-10-631-558-5/c
; Sequence 5, Application US/10631558
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: Roy, Chaiti
; APPLICANT: Rajagopal, Kammara
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION

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Sequence 1, Application US/10631558

GENERAL INFORMATION:

APPLICANT: Kumar, Rajesh  
APPLICANT: Sahni, Girish  
APPLICANT: Roy, Chait  
APPLICANT: Rajagopal, Kammar  
APPLICANT: Nihalani, Deepak  
APPLICANT: Sundaram, Vasudha  
APPLICANT: Yadav, Mahavir

TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE

TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION

TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID

TITLE OF INVENTION: PROTEIN

FILE REFERENCE: 07064-009002

CURRENT APPLICATION NUMBER: US/10/631,558

CURRENT FILING DATE: 2003-07-31

PRIOR APPLICATION NUMBER: US/09/940,235

PRIOR FILING DATE: 2002-04-09

PRIOR APPLICATION NUMBER: 09/471,349

PRIOR FILING DATE: 1999-12-23

PRIOR APPLICATION NUMBER: IN 3825/DEL/98

PRIOR FILING DATE: 1998-12-24

NUMBER OF SEQ ID NOS: 28

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 1

LENGTH: 1245

TYPE: DNA

ORGANISM: Streptococcus equisimilis

FEATURE:

NAME/KEY: CDS

LOCATION: (1)...(1242)

US-10-631-558-1

Alignment Scores:

Pred. No.: 19.5 Length: 1245  
Score: 28.50 Matches: 12  
Percent Similarity: 34.62% Conservative: 6  
Best Local Similarity: 23.08% Mismatches: 19  
Query Match: 4.75% Indels: 15  
DB: 1 Gaps: 2

US-09-940-235-4 (1-259) x US-10-631-558-1 (1-1245)

QY 5 MetValGlnProGlnSerProVal-----AlaValSerGlnSerLysProGlyCysTyr 22

Db 581 ATGGTGTACCCGATAGCTAGTGTGTTTCAATAGCTTAGTATCTTTGAGACCTGGTCTGAAA 522

QY 23 AspAsnGlyLysHisTyrGlnIleAsnGlnGlnTrpGluArgThrTyrLeuGlyAsnVal 42

Db 521 TCGTCATCAGGGTTTAAGGGAGTAAC----- 495

QY 43 LeuValCysThrCysTyrGlyCysSerArgGlyPhe 54

Db 494 -----TGTACAGTATATTCCACATCAACAGATTTC 465

RESULT 43

US-09-569-920-2/c

Sequence 2, Application US/09569920

GENERAL INFORMATION:

APPLICANT: Reddy, Vemuri B.  
APPLICANT: Lerner, Ethan

TITLE OF INVENTION: VASODILATOR-THROMBOLYTIC FUSION PROTEIN

TITLE OF INVENTION: AND CONJUGATES

FILE REFERENCE: 10284-026001

CURRENT APPLICATION NUMBER: US/09/569,920

CURRENT FILING DATE: 2000-05-11

NUMBER OF SEQ ID NOS: 9

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 2

LENGTH: 1254

TYPE: DNA

ORGANISM: Streptococcus pyogenes

US-09-569-920-2

Alignment Scores:

Pred. No.: 19.5 Length: 1254  
Score: 28.50 Matches: 12  
Percent Similarity: 34.62% Conservative: 6  
Best Local Similarity: 23.08% Mismatches: 19  
Query Match: 4.75% Indels: 15  
DB: 1 Gaps: 2

US-09-940-235-4 (1-259) x US-09-569-920-2 (1-1254)

QY 5 MetValGlnProGlnSerProVal-----AlaValSerGlnSerLysProGlyCysTyr 22

Db 587 ATGGTGTACCCGATAGCTAGTGTGTTTCAATAGCTTAGTATCTTTGAGACCTGGTCTGAAA 528

QY 23 AspAsnGlyLysHisTyrGlnIleAsnGlnGlnTrpGluArgThrTyrLeuGlyAsnVal 42

Db 527 TCGTCATCAGGGTTTAAGGGAGTAAC----- 501

QY 43 LeuValCysThrCysTyrGlyCysSerArgGlyPhe 54

Db 500 -----TGTACAGTATATTCCACATCAACAGATTTC 471

RESULT 44

US-09-471-349-6/c

Sequence 6, Application US/09471349

GENERAL INFORMATION:

APPLICANT: Sahni, Girish

APPLICANT: Kumar, Rajesh

APPLICANT: Roy, Chait

APPLICANT: Rajagopal, Kammar

APPLICANT: Nihalani, Deepak

APPLICANT: Sundaram, Vasudha

APPLICANT: Yadav, Mahavir

TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE PROTEINS POSSESSING ALTERED

TITLE OF INVENTION: PLASMINOGEN ACTIVATION CHARACTERISTICS AND A PROCESS FOR THE

FILE REFERENCE: 07064/009001

CURRENT APPLICATION NUMBER: US/09/471,349

CURRENT FILING DATE: 1999-12-23

PRIOR APPLICATION NUMBER: IN 3825/DEL/98

PRIOR FILING DATE: 1998-12-24

NUMBER OF SEQ ID NOS: 24

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 6

LENGTH: 1327

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Synthetically generated primer

US-09-471-349-6

Alignment Scores:

Pred. No.: 19.6 Length: 1327  
Score: 28.50 Matches: 12  
Percent Similarity: 34.62% Conservative: 6  
Best Local Similarity: 23.08% Mismatches: 19  
Query Match: 4.75% Indels: 15  
DB: 1 Gaps: 2

US-09-940-235-4 (1-259) x US-09-471-349-6 (1-1327)

QY 5 MetValGlnProGlnSerProVal-----AlaValSerGlnSerLysProGlyCysTyr 22

Db 663 ATGGTGTACCCGATAGCTAGTGTGTTTCAATAGCTTAGTATCTTTGAGACCTGGTCTGAAA 604

QY 23 AspAsnGlyLysHisTyrGlnIleAsnGlnGlnTrpGluArgThrTyrLeuGlyAsnVal 42

Db 603 TCGTCATCAGGGTTTAAGGGAGTAAC----- 577

QY 43 LeuValCysThrCysTyrGlyCysSerArgGlyPhe 54

Db 576 -----TGTACAGTATATTCCACATCAACAGATTTC 547

```
RESULT 45
US-09-940-235-6/c
; Sequence 6, Application US/09940235
; GENERAL INFORMATION:
; APPLICANT: Kumar, Rajesh
; APPLICANT: Sahni, Girish
; APPLICANT: ROY, Chait
; APPLICANT: Rajagopal, Kammar
; APPLICANT: Nihalani, Deepak
; APPLICANT: Sundaram, Vasudha
; APPLICANT: Yadav, Mahavir
; TITLE OF INVENTION: NOVEL CLOT-SPECIFIC STREPTOKINASE
; TITLE OF INVENTION: PROTEINS POSSESSING ALTERED PLASMINOGEN ACTIVATION
; TITLE OF INVENTION: CHARACTERISTICS AND A PROCESS FOR THE PREPARATION OF SAID
; TITLE OF INVENTION: PROTEIN
; FILE REFERENCE: 07064-009002
; CURRENT APPLICATION NUMBER: US/09/940,235
; CURRENT FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 09/471,349
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: IN 3825/DEL/98
; PRIOR FILING DATE: 1998-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 1327
; TYPE: DNA
; ORGANISM: Streptococcus equisimilis
US-09-940-235-6

Alignment Scores:
Pred. No.:      19.6      Length:      1327
Score:          28.50     Matches:      12
Percent Similarity: 34.62% Conservative: 6
Best Local Similarity: 23.08% Mismatches:      19
Query Match:      4.75% Indels:      15
DB:              1      Gaps:      2

US-09-940-235-4 (1-259) x US-09-940-235-6 (1-1327)
Qy      5 MetValGlnProGlnSerProVal-----AlaValSerGlnSerLysProGlyCysTyr 22
Db      663 ATGGTGTCAACCGATAGCTAGTGTCTTCAATAGCTTAGTATCTTTGAGACCTGGTCTGAAA 604
Qy      23 AsphaenGlyLysHisTyrGlnIleAsnGlnGlnTrpGluArgThrTyrLeuGlyAsnVal 42
Db      603 TCGTCATCAGGGGTTTAAGGGAGTAAAC----- 577
Qy      43 LeuValCysThrCysTyrGlyGlySerArgGlyPhe 54
Db      576 -----TGTACAGTATATTCACATCATCAGATTTC 547

Search completed: May 11, 2005, 08:38:13
Job time : 7 secs
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